

**Minutes of Annual Meeting
New York Chapter, American Fisheries Society
Syracuse, N.Y. - December 4, 1969**

1. The meeting was called to order at 8:40 p.m. by President William Flick. A quorum was present. One guest, Dr. Robert Hutton, was introduced. Irwin Alparin, President of the New England Chapter was invited, but received his invitation too late. He did agree that it would be beneficial to have chapter officers attend meetings of neighboring chapters. President Flick announced that he had attended the February Northeastern Division meeting in West Virginia and the September national meeting in New Orleans. He stated that three meetings of the Executive Committee had been held during the year and described a letter concerning the threat of chlorinated hydrocarbons which was sent to ten key legislators. He urged attendance at the Centennial meeting of the Society to be held in New York City in September, 1970.
2. Adoption of the minutes of the December 6, 1968 meeting was moved by Robert Van Wie and passed.
3. Treasurer Clifford Creech read his report. Balance on hand as of December 4, 1969 was \$439.36. Motion by Robert Harding to accept the Treasurer's Report was passed. Robert Brewer, Chairman of the Audit Committee, reported that the Treasurer's records were examined and found to be in order.
4. Report of Committees
 - a. Al Ripper, Chairman of the Program Committee, offered to pass on suggestions and ideas to ease the next chairman's burden.
 - b. Paul Neth, Chairman of the Membership Committee, reported the Chapter had gained one member for a new total of 101 in 1969. He cited new Department and Cornell personnel as a source of additional members.
 - c. Steve Simkins, Chairman of the Professional Standards Committee, summarized the many activities of his group during the past year:
 - (1) Training Program For Fisheries Workers - Majority of those canvassed for opinion favored; contact with Cornell to explore possibilities revealed that a field training program for students was being developed and could be available to state workers. A. C. Petty moved "that the New York Chapter of the American Fisheries Society go on record as being in favor of a training program in New York State to improve the competence and working performance of technical fishery workers and other personnel who would benefit by attendance. Motion passed unanimously. In investigating the possibilities of upgrading sub-professional items in state service, the Committee learned of present Department efforts from Bureau Chief Carl Parker. The Committee recommended that the next committee investigate a proposal to allow advanced sub-professionals to qualify to enter the professional grades.

(2) **Standards For Fisheries Biologists in New York State** - A majority of those canvassed favored licensing of biologists with the same qualifications for a license as those adopted by the parent Society. The outlook for licensing is dim, however. The Board of Regents has sole authority to issue licenses in this state and approve the licensing of groups on the basis of the welfare of the general public. The foresters have not been successful to date in moving four different bills out of legislature committee - partially because of interval disagreement on the need. An alternate to licensing is certification by the Dept. of State, such as is done for Notary Publics.

Based on the overwhelming support of the Chapter for the concept of licensing; the committee recommended that (a) an ad hoc committee be formed to further investigate the subject; (b) such a committee be Albany oriented and (c) the committee determine the feelings of University and Department administrators toward the subject. A motion to accept these recommendations was made by Leigh Blake and approved by a 42-2 show of hands.

(3) **High School Recruitment Material** - There are 1200 guidance personnel in the state with their own montly organ. An article could be presented for this outlet. Career Brochures are available for distribution, but a major problem is a lack of display space in guidance offices. The Committee suggests the production of a career film as a better approach. Funds might be available from various sources, such as the Sportsmen's State Council, SFI and AFS. Tony Bonavist moved "that the New York State Chapter of the American Fisheries Society participate in the production of a full color sound film entitled 'Fisheries As A Profession'." Motion approved. The Committee recommended an ad hoc committee be formed to pursue this matter.

d. Martin Pfeiffer, Chairman of the Heraldic Committee, announced that the members had approved one of three proposed designs for lapel pins by mail ballot. Details of color, etc. remain and are to be resolved by the committee.

e. David Green, Chairman of the Resolutions Committee, presented one resolution recommending legislation to eliminate the use of chlorinated hydrocarbons by 1971 except under emergency conditions approved by the Departments of Health and Conservation and urging research by the State to develop alternate methods, safer pesticides and improved methods of pesticide application. Walter Kellar moved that the wording be amended to "safe pesticides". This motion was defeated. Howard Dean then moved the original resolution, which was passed.

f. Russ Fieldhouse presented the proposed by-laws prepared by the By-Laws Committee in the absence of Chairman John Gould. Each section was read, discussed, amended by motion where applicable and finally adopted by motion. By-laws must now be submitted to the Society for approval.

5. The Secretary presented a brief report of his mailings during the year.

6. Unfinished Business - Al Eipper noted that the results of efforts to interest students in the Chapter were indicated by the number present - none.

7. New Business - President Flick offered some thoughts for consideration by the incoming officers:

a. Assist in or conduct a field trip to view fisheries activities in the state before or after the meeting for participants in the Centennial meeting. Dr. Hutton described plans for the meeting and some of the problems facing the Society. Dr. Webster moved that the Secretary write to the co-chairmen of the Centennial Committee offering the Chapter's assistance in any way possible, but particularly in developing a tour of points of interest in the state. Motion passed.

b. The Chapter should either take a more active role in or actually sponsor the unofficial newsletter now put out by the Bureau of Fish.

8. Dr. Dwight Webster presented the Chapter's charter from the parent society to President Flick.

9. Don Pasko, Chairman of the Nominating Committee, presented the following slate: President - Paul Neth; Vice President - Robert Griffiths; Secretary-Treasurer - Kenneth Wich. There being no nominations from the floor, it was moved and passed that the Secretary cast one ballot for this slate.

10. Paul Neth, newly elected President, thanked the members on behalf of the new officers; called for a round of applause for the outgoing officers and committee members and adjourned the meeting at 11:30 p.m.

Respectfully submitted,
Kenneth Wich, Secretary

August 25, 1969

TO: U. B. Stone, Paul Neth, Ken Wich, Cliff Creech
FROM: Bill Flick
SUBJECT: Meeting of the Executive Committee New York Chapter American Fishery Society

Several months have gone by since our last Executive Meeting of the New York Chapter and I am sure you are all bubbling over with new ideas for strengthening our organization. It would therefore seem desirable to have an Executive Meeting in the near future to discuss new developments, bring you up to date on progress of the Program Committee and to discuss membership problems. In this line, I would like to suggest a meeting for 8:00 p.m., September 8, 1969, at the Lake Side Motel in Saranac Lake.

The reason for the above date would be to take advantage of Paul and Ken who will be in Saranac Lake for the reclamation of Little Clear Pond. It might also make a good excuse for the rest to be on hand for the reclamation on the 9th, if for no other reason than to get a few bags of lake trout and suckers to take home for the freezer.

One question which has been brought to my attention is having the New York Chapter of the Fishery Society together with the Chapter of the Society of American Foresters and the Wildlife Chapter represent State employees on problems of wages, retirement, and etc. I am not sure that I consider this a reasonable function of our organization but would be interested in your views when and if we meet.

Kindly let me know in the near future your feeling on a meeting and this suggested time and place.

CONSERVATION DEPARTMENT
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BUREAU OF FISH
-RESEARCH-

SFI *bulletin*



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RESEARCH-

AUGUST, 1970

NO. 217

"To Help Shorten the Time Between Bites"

FEDERAL ENVIRONMENTAL REORGANIZATION

On July 9, 1970, President Nixon submitted to the Congress Reorganization Plans Nos. 3 and 4 of 1970. These two separate plans, respectively, would establish the ENVIRONMENTAL PROTECTION AGENCY (EPA) as a new, independent executive agency, and the NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) within the Department of Commerce.

The EPA, according to the White House would bring together in a single organization the major federal pollution control programs now existing in four separate agencies and one interagency council. The creation of EPA is intended to fulfill the President's pledge of February 10, 1970, to recommend improved administrative machinery to meet the current pollution crisis.

The stated mission of the EPA will be to organize the fight against environmental pollution on an integrated basis which acknowledges the critical relationships between various pollutants, sources of pollution, and control techniques. Under the present organization, pollution control activities are conducted by many departments and agencies. Each is typically concerned with a single pollutant or source (radiation, pesticides), a single environmental medium (air, water, food), or a limited aspect of the total problem (health or economic effects, aesthetics). The creation of EPA, the White House said, will have the following advantages:

It will upgrade the effectiveness of the federal government's major pollution control programs.

It will provide a central focus for an evaluation of all pollution-related activities of the federal government.

It will serve to upgrade the importance of environmental considerations and pollution programs within the federal government and, over a period of time, tend to have a similar effect on program priorities within state and local governments.

It will clarify industry responsibility by providing consistent standards and a single enforcement agency.

State and local pollution control agencies will be able to look to one federal agency for all their financial support and technical assistance.

It will insulate pollution abatement standard-setting from the promotional interests of other departments.

The EPA will have an estimated Fiscal Year 1971 budget of \$1.4 billion and 5,650 personnel, and consist of the following:

The Federal Water Quality Administration (FWQA), now in the Department of the Interior; the National Air

Pollution Control Administration (NAPCA), now in the Department of Health, Education and Welfare; parts of the Environmental Control Administration (Bureaus of Solid Waste Management, Water Hygiene and a portion of the Bureau of Radiological Health), also from HEW; the pesticides research and standard-setting program of the Food and Drug Administration, HEW; the pesticides registration authority of the Department of Agriculture; authority to perform general ecological research, from the Council on Environmental Quality (CEQ); certain pesticide research authorities of the Department of Interior; the environmental radiation protection standard-setting function of the Atomic Energy Commission; and the functions of the Federal Radiation Council (FRC).

President Nixon, in his Message to the Congress transmitting his Reorganization Plan No. 3 for creation of the EPA, stated:

This reorganization would permit response to environmental problems in a manner beyond the previous capability of our pollution control programs. The EPA would have the capacity to do research on important pollutants irrespective of the media in which they appear, and on the impact of these pollutants on the total environment. Both by itself and together with other agencies, the EPA would monitor the condition of the environment—biological as well as physical. With these data, the EPA would be able to establish quantitative 'environmental baselines'—critical if we are to measure adequately the success or failure of our pollution abatement efforts.

As no disjointed array of separate programs can, the EPA would be able—in concert with the states—to set and enforce standards for air and water quality and for individual pollutants. This consolidation of pollution control authorities would help assure that we do not create new environmental problems in the process of controlling existing ones. Industries seeking to minimize the adverse impact of their activities on the environment would be assured of consistent standards covering the full range of their waste disposal problems. As the states develop and expand their own pollution control programs, they would be able to look to one agency to support their efforts with financial and technical assistance and training.

In proposing that the Environmental Protection Agency be set up as a separate new agency, I am making an exception to one of my own principles: that, as a matter of effective and orderly administration, additional new independent agencies normally should not be created. In this case, however, the arguments against placing environmental protection activities under the jurisdiction of one or another of the existing departments and agencies are compelling.

In the first place, almost every part of government is concerned with the environment in some way, and affects it in some way. Yet each department also has its own primary

mission—such as resource development, transportation, health, defense, urban growth or agriculture—which necessarily affects its own view of environmental questions.

In the second place, if the critical standard-setting functions were centralized within any one existing department, it would require that department constantly to make decisions affecting other departments—in which, whether fairly or unfairly, its own objectivity as an impartial arbiter could be called into question.

Because environmental protection cuts across so many jurisdictions, and because arresting environmental deterioration is of great importance to the quality of life in our country and the world, I believe that in this case a strong, independent agency is needed. That agency would, of course, work closely with and draw upon the expertise and assistance of other agencies having experience in the environmental area.

The principal roles and functions of the EPA would include:

The establishment and enforcement of environmental protection standards consistent with national environmental goals.

The conduct of research on the adverse effects of pollution and on methods and equipment for controlling it, the gathering of information on pollution, and the use of this information in strengthening environmental protection programs and recommending policy changes.

Assisting others, through grants, technical assistance and other means in arresting pollution of the environment.

Assisting the Council on Environmental Quality in developing and recommending to the President new policies for the protection of the environment.

One natural question concerns the relationship between the EPA and the Council on Environmental Quality, recently established by Act of Congress.

It is my intention and expectation that the two will work in close harmony, reinforcing each other's mission. Essentially, the Council is a top-level advisory group (which might be compared with the Council of Economic Advisers), while the EPA would be an operating, 'line' organization. The Council will continue to be a part of the Executive Office of the President and will perform its overall coordinating and advisory roles with respect to all federal programs related to environmental quality.

The Council, then, is concerned with all aspects of environmental quality—wildlife preservation, parklands, land use, and population growth, as well as pollution. The EPA would be charged with protecting the environment by abating pollution. In short, the Council focuses on what our broad policies in the environmental field should be; the EPA would focus on setting and enforcing pollution control standards. The two are not competing, but complementary—and taken together, they should give us, for the first time, the means to mount an effectively coordinated campaign against environmental degradation in all of its many forms.

The NOAA, according to the White House, would bring together in a single administration the major federal programs dealing with seas and atmosphere. These programs presently exist in four departments and one agency. The creation of NOAA is designed to improve the overall management of programs dealing with the three-fourths of the earth covered by the oceans.

The mission of NOAA would be to organize a unified approach to the problems of the ocean and the atmosphere and to create a center of strength within the civilian sector of the federal government for this purpose. Each of the units which will comprise NOAA presently carries out oceanic functions according to its particular mission. According to the White House, however, the lack of overall planning and systems approach has resulted in an impetus towards oceanic affairs which has been much less than it should be.

The NOAA will have an estimated 1971 budget of about \$270 million and over 12,000 personnel and will consist of the following:

The Environmental Science Services Administration, already a part of the Department of Commerce; most of the Bureau of Commercial Fisheries, now in the Department of the Interior; the Marine Minerals Technology Program of the Bureau of Mines in the Department of the Interior; the Office of Sea Grant Programs of the National Science Foundation; and elements of the United States Lake Survey of the Department of the Army.

Upon the establishment of NOAA, the following programs will be transferred to it by executive action (no legislative authority is required to effect these transfers):

The National Oceanographic Data and Instrumentation Centers of the Department of the Navy; and the National Data Buoy Program of the Department of Transportation.

The President will request, upon approval of the plan, that the Secretary of Commerce establish a National Advisory Committee for the Oceans and Atmosphere to advise him on the progress of governmental and private programs in achieving the nation's oceanic and atmospheric objectives.

President Nixon, in his Message to the Congress transmitting his Reorganization Plan No. 4 for creation of the NOAA, stated:

The oceans and the atmosphere are interacting parts of the total environmental system upon which we depend not only for the quality of our lives, but for life itself.

We face immediate and compelling needs for better protection of life and property from natural hazards, and for a better understanding of the total environment—an understanding which will enable us more effectively to monitor and predict its actions, and ultimately, perhaps to exercise some degree of control over them.

We also face a compelling need for exploration and development leading to the intelligent use of our marine resources. The global oceans, which constitute nearly three-fourths of the surface of our planet, are today the least-understood, the least-developed, and the least-protected part of our earth. Food from the oceans will increasingly be a key element in the world's fight against hunger. The mineral resources of the ocean beds and of the oceans themselves, are being increasingly tapped to meet the growing world demand. We must understand the nature of these resources, and assure their development without either contaminating the marine environment or upsetting its balance.

Establishment of the National Oceanic and Atmospheric Administration—NOAA—within the Department of Commerce would enable us to approach these tasks in a coordinated way. By employing a unified approach to the problems of the oceans and atmosphere, we can increase our knowledge and expand our opportunities not only in those areas, but in the third major component of our environment, the solid earth, as well.

Scattered through various federal departments and agencies, we already have the scientific, technological and administrative resources to make an effective, unified approach possible. What we need is to bring them together. Establishment of NOAA would do so . . .

Drawing these activities together into a single agency would make possible a balanced federal program to improve our understanding of the resources of the sea, and permit their development and use while guarding against the sort of thoughtless exploitation that in the past laid waste to so many of our precious natural assets. It would make possible a consolidated program for achieving a more comprehensive understanding of oceanic and atmospheric phenomena, which so greatly affect our lives and activities. It would facilitate the cooperation between public and private interests that can best serve the interests of all.

I expect that NOAA would exercise leadership in developing a national oceanic and atmospheric program of research and development. It would coordinate its own scientific and technical resources with the technical and operational capabilities of other government agencies and private institutions. As important, NOAA would continue to provide those services to other agencies of government, industry and private individuals which have become essential to the efficient operation of our transportation systems, our agriculture and our national security. I expect it to maintain continuing and close liaison with the new Environmental Protection Agency and the Council on Environmental Quality as part of an effort to ensure that environmental questions are dealt with in their totality and that they benefit from the full range of the government's technical and human resources.

Authorities who have studied this matter, including the Commission on Marine Science, Engineering and Resources, strongly recommended the creation of a National Advisory Committee for the Oceans. I agree. Consequently, I will request, upon approval of the plan, that the Secretary of Commerce establish a National Advisory Committee for the Oceans and the Atmosphere to advise him on the progress of governmental and private programs in achieving the nation's oceanic and atmospheric objectives.

Conservation Concerns Crystallize. In several meetings between representatives of the conservation community and various members of the Executive Branch, both prior and subsequent to the President's formal proposals for Reorganizations, several important reservations have been expressed. With respect to the proposed EPA, most seem to have become more or less resolved, at least temporarily, except whether this will prove to be much more than an exercise in musical chairs and paper shuffling.

Only time—a year to two should be adequate—will reveal whether the Administration will apply the oars vigorously to its new environmental pollution control boat and, through necessary infusion of substantial additional funds to the combined program, demonstrate convincingly that some needed new national priorities have been formulated and will become implemented. It has redesigned the format of its environmental quality report card, but the grades it can report to its "parents" have not—as yet—improved noticeably over those of prior Administrations. The new dollar signs are the ones to watch . . .

Doubts about the wisdom of assigning the proposed NOAA within Commerce—a potentially meritorious concept to contemplate within another administrative climate as, for example, a new Department of Natural Resources and the Environment—continue strong within the conservation community. Commerce Under Secretary Rocco Siciliano has informed the Sport Fishing Institute that neither he nor Dr. Steven E. Schanes (Special Assistant to the Secretary for Policy Development) had met with any representatives of the commercial fishing industry (prior to the President's Reorganization Message to Congress). He also disclaimed knowledge of such meetings on the part of any other Commerce Department officials. Readers will recall that it was stated in the SFI BULLETIN No. 216, July, 1970 (page 2), in part:

It [the commercial fishing industry] has already met with Commerce Department officials seeking assurances that the Department will be responsive to its desires when BCF is transferred to NOAA. A central desire is freedom to exploit the nation's marine fisheries resources without the restraints that are needed both for long-term conservation of the resources and for accommodation of reasonable joint use by about 15,000,000 saltwater sport fishermen (10,000,000 of them being habitual adult anglers). The Sport Fishing Institute has strong reason to believe that Commerce officials

readily supplied the assurances that were requested by the leaders of the commercial fishing industry.

Under Secretary Siciliano took specific exception to the suggestion of any such dealings with the commercial fishing industry. We are pleased to report his refutation of the information that had been supplied the Institute from what it regarded as reliable source. We were especially intrigued when Mr. Siciliano also rejected the general public understanding that the Commerce Department is the official government advocate for the forces of business and industry—the traditional developers and exploiters of the resources. He stated emphatically that neither he nor NOAA would become the philosophical captive of the commercial fishing industry. He maintained that conservation of the living marine resources would be the over-riding consideration under NOAA within Commerce—a contention, of course, that may well be put to the test in the near future.

After all the discussions and the partial clearing of the smoke, plus considerable related soul searching within the conservation community, a preliminary action position was jointly enunciated by a representative *ad hoc* coalition of national conservation organizations in the following telegram to President Nixon:

The undersigned national conservation and environmental organizations endorse the Administration's executive reorganization creating an Environmental Protection Agency (EPA) as an independent agency dealing with our nation's serious environmental depredation problems.

But we are strongly opposed to a National Oceanic and Atmospheric Agency that proposes to transfer research, management, and regulatory functions of a most important renewable resource belonging to all of the people to the Department of Commerce which traditionally represents the industrial and economic viewpoint. Moving commercial fisheries management, research and the anadromous fishery program to the Department of Commerce would split executive jurisdiction of the fisheries resource to the detriment of a growing public use of the resource by sport fishermen.

[Signed by] American Forestry Association, William E. Towell, Executive Vice President; American Institute of Biological Sciences, Donald R. Beem, Assistant Director; American Scenic and Historic Preservation Association, Richard H. Pough, Conservation Chairman; National Association of Conservation Districts, Gordon K. Zimmerman, Executive Secretary; National Audubon Society, Charles H. Callison, Executive Vice President; National Wildlife Federation, Thomas L. Kimball, Executive Director; Sport Fishing Institute, Richard H. Stroud, Executive Vice President; Trout Unlimited, Ray A. Kotrla, Washington Representative; Wildlife Management Institute, Daniel A. Poole, President.

There is strong indication that this decision to support EPA but oppose NOAA within Commerce is gathering many adherents within the conservation community. As matters stand, the proposed reorganizations will become law within 60 Congressional-session days (variously estimated to terminate in Senate and House sometime toward the end of September, unless rejected by Congressional resolution (expected to be introduced soon). The latter would be expected to carry only if opposition expressed to the Congress is sufficiently strong to generate such a reaction. The very reason that the proposal for EPA makes some sense is the same one that tends to make a mockery of the proposal for NOAA within Commerce. It is, as a July 12 NEW YORK TIMES editorial stated, that "no agency entrusted with promoting the development of an area's natural resources—minerals, seafood, water power—should

be entrusted at the same time with protecting the environment against the consequences of that development. The two objectives often conflict, and it is almost invariably the organized exploiters who win, the unorganized public that loses."

It makes sense, for example, to remove regulation of radiological emissions at nuclear power plants from the AEC, which is charged with promoting their development, and placing that responsibility in an independent EPA. Conversely, it courts disaster to assign the responsibility for conserving marine fisheries resources within the Department of Commerce, which is traditionally devoted to development and exploitation of resources rather than their protection from the consequences of such exploitation. This is the basic reason why responsible conservationists are now transmitting their views on this matter, by letter and telegram, to their Congressional representation generally, and the House and Senate Committees on Government Operations in particular—before the end of September, when Reorganization Plan No. 4 (NOAA in Commerce) would otherwise automatically take effect.

CONSERVATION MILESTONE

A special July 20, 1970, dispatch to THE NEW YORK TIMES by Roy Reed, marks one of the most significant court decisions in the history of conservation, as we see it. Reed reported that the United States Court of Appeals for the Fifth Circuit (at New Orleans) has ruled that *ecology should be considered along with other factors in the filling and dredging of coastal wetlands*. Thus, the Court overturned a contrary earlier view of a federal district judge—whose decision was being appealed by the federal government. The Court held that the Army Corps of Engineers had acted properly in 1967 in refusing to grant a permit to allow two Florida landowners to fill 11 acres of Boca Ciega Bay (near St. Petersburg) for a trailer park. Implementing an interdepartmental agreement with the Department of Interior, the Engineers had acted on the grounds the work would harm fish and wildlife in the bay and be inimical to the public interest.

Referring to the Engineers and other responsible authorities, the court said:

"The establishment was entitled, if not required, to consider ecological factors and, being persuaded by them, to deny that which might have been granted routinely 5, 10, or 15 years ago before man's explosive increase made all, including Congress, aware of civilization's potential destruction from breathing its own polluted air and drinking its own infected water and the immeasurable loss from a Silent-Spring-like disturbance of nature's economy."

This is an extremely important precedent and will undoubtedly provide the cornerstone for the Corps' developing effort to incorporate ecological capabilities and considerations into their program.

COLUMBIA STEELHEAD CATCH

In accordance with legislation passed last year by the Oregon Legislature, new gill-net regulations were formulated by the Oregon Fish Commission to reduce the catch of steelhead trout by commercial fishermen. A 7¼-inch stretch mesh size restriction placed on gill nets during the

Columbia River commercial winter season by Oregon and Washington fishery agencies has proven effective in reducing the incidental catch of steelhead. Reduced steelhead landings and results of a special experiment in conjunction with the 14-day winter season which ended March 5 have demonstrated its effectiveness. While the steelhead run may have been smaller than average, the study showed that steelhead were present and could be caught in good numbers when fished for with a "steelhead net" of 6-inch mesh.

The special study, set up to evaluate the effectiveness of the mesh restriction, utilized two identical diver nets, except that one was a legal 7¼-inch taut mesh "salmon net," while the other was the 6-inch taut mesh "steelhead net." Diver nets are gill nets with trammels, typically drifted near the bottom during the winter season. Under Oregon Fish Commission supervision, the two nets were fished alternately over the same drift by equally experienced and proficient commercial fishermen. The test fisherman using the 6-inch mesh caught 36 steelhead in 8 drifts over a 40-hour test period, while the fisherman using the legal gill net caught only 6 steelhead. Both nets caught 8 chinook salmon, indicating the larger 7¼-inch mesh net was as effective as the smaller net for chinook salmon.

Earlier released figures on the past winter season gill-net landings catch ratios also tend to bear out the effectiveness of the mesh restriction. Only 3,600 steelhead were taken during the winter season while 13,300 chinook were landed. Over the last ten-year period, the average winter season catch during seasons varying from 14 to 19 days has been about 5,600 chinook and 8,000 steelhead.

TVA MERCURY REPORT

A mid-July announcement is reassuring on the mercury scare for Tennessee Valley Authority (TVA) reservoirs. It reports that analysis by TVA of fish samples collected from ten lakes on its reservoir system has shown no significant levels of mercury in fish except in Pickwick Lake near Florence, Alabama. TVA began the sampling project in May, after the U. S. Food and Drug Administration had established an interim working guideline for allowable mercury concentrations in the flesh of edible fish.

Results of these analyses as they were completed have been supplied by TVA to the state and federal agencies that have enforcement authority over stream pollution and fishing. TVA will continue to supply this information to enforcement agencies as analyses of other samples are completed. Analysis results have been obtained so far from 16 locations on ten lakes. Results are expected by mid-August from samples already taken at nine locations on five other lakes. The process is necessarily a slow one because of the complex preparation required for each sample, TVA said. The samples are analyzed at the TVA Water Quality Laboratory at Chattanooga, Tennessee.

Samples collected during the fall of 1969 from the Hiwassee arm of Chickamauga Lake, showing concentrations higher than are now considered acceptable, are being rechecked. The main body of Chickamauga Lake showed essentially no contamination, TVA said. TVA will continue its sampling, including analyses of fish, water, bottom mud and clams as necessary to pinpoint sources of mercury. The agency also is expanding its sampling, beginning immedi-

ately, to include the other TVA reservoirs not included in the initial investigation.

The reservoirs from which samples have been collected and analyzed are Melton Hill, Cherokee, Ocoee #1, Hiwassee, Wilson, Pickwick, Kentucky (and one station below Kentucky Dam), Chickamauga, Watts Bar, and Wheeler. The reservoirs from which samples have been taken but are still being tested are Fontana, Douglas, Fort Loudoun, Nickajack, and Gunterville. The results so far from 16 sampling locations disclosed that only the fish from Pickwick Lake have mercury levels above the one-half part per million established by the FDA as a basis for declaring fish adulterated and unsuitable for human consumption. Pickwick lies across the Alabama-Mississippi-Tennessee border, and state agencies in these states have moved to stop commercial fishing and warn sport fishermen against eating fish caught in Pickwick Lake.

The state health departments have stated that levels of mercury found in water do not constitute a hazard to public water supplies taking their water from the lake. Similarly, swimming and other water contact sports are not affected.

TVA has purchased an atomic absorption spectrophotometer for its water laboratory. This makes possible accurate measurements of extremely small levels of mercury, in addition to other analyses performed at the lab. The Tennessee Division of Stream Pollution Control and the Federal Water Quality Administration are participating in the identification of mercury sources, particularly in the Boone, South Holston, and Watauga lakes of upper east Tennessee.

MASSIVE ENVIRONMENTAL POLLUTION

The Plant Pest Control Division of the Agricultural Research Service (USDA) and state agencies in 9 southeastern states have proposed a \$200 million, 12-year campaign to "eradicate" the imported fire ant. Federal funds are to be matched with state funds on a 2-for-1 basis. The plan calls for three aerial treatments of about 120 million acres with 1.25 pounds of mirex bait per acre per treatment. Mirex, an extremely stable chlorinated hydrocarbon insecticide, is placed on ground corncob grits along with soybean oil which serves as an attractant. Each treatment results in an average of 16 granules containing 0.3 per cent mirex per square foot (757,000 granules per acre). The bait is applied indiscriminately by airplanes to all surfaces including land, cities, ponds, and streams. The eradication program is currently under way in South Carolina and Georgia, and was scheduled to start in Mississippi in late July.

According to Dr. Denzel E. Ferguson, Mississippi State University, in May, 1970, the Committee for Leaving the Environment of America Natural (CLEAN)—a conservation organization based in Starkville, Mississippi, called for delay in the planned eradication program "because of the lack of published research information on the effects of mirex on the environment and non-target organisms." In a letter dated June 8, 1970, Deputy Director A. V. Tunison of the Bureau of Sport Fisheries and Wildlife stated (emphasis added), "We wholeheartedly concur in your recommendation that the program be restricted to a mound to mound

treatment pending the outcome of the research now in progress."

Leo G. K. Iveson, Acting Deputy Administrator of the Agricultural Research Service (USDA) reacted predictably on June 10, 1970. He stated, in part: "A delay in the program would give advantage to the pest which may never be recaptured." This statement, says Dr. Ferguson, is ludicrous since the fire ant has apparently been in this country since 1918 (1)! Although the planned eradication program calls for use of 450 million pounds of mirex in 9 states, there seem to be fewer than a dozen pertinent published papers describing effects of mirex on non-target organisms. What information is available suggests good and justifiable reasons to Dr. Ferguson for delaying the eradication program until further investigations can be performed.

When mirex was put in ponds at the recommended rate, the concentration of residues in soil, water, and vegetation were relatively constant for over 300 days, illustrating that the chemical is highly resistant to degradation or removal (2). A report on pesticides made to the Secretary of Health, Education and Welfare by a special scientific commission lists mirex as a carcinogen (cancer-causing agent) that induces tumors in mice (3). The Commission recommended that exposure of human beings to such compounds be minimized and that the use of these pesticides be restricted to those purposes for which they are judged to be advantageous to human health which outweigh the potential hazard of carcinogenicity. The Commission called for reexamination of the registered uses of several pesticides including mirex.

Massive experimental doses of mirex are known to kill birds and mammals and affect their reproduction. Relatively low experimental dosage levels also have serious effects. Ten ppm mirex in the diet caused 100 per cent mortality in mice by 60 days (4). A diet with 5 ppm mirex resulted in higher parent mortality and a significantly lower number of offspring than in DDT-fed mice. Gills and kidneys of mirex-exposed goldfish developed lesions beginning 56 days after treatment, and the numbers of these fish surviving were inversely related to treatment level (2). In these investigations, experimental fish quickly accumulated high levels of mirex residues, which showed little decline up to 300 days after treatment.

By far the most damaging effects of mirex involve marine organisms. Bureau of Commercial Fisheries biologists (5) reported that a single granule of mirex bait when consumed by shrimp caused 50 per cent mortality. During a 3-week test, one-tenth part per billion mirex in sea water killed 11 per cent of the shrimp tested, and an additional 25 per cent died when transferred to clean sea water and observed for 2 weeks. Livers of treated shrimp accumulated 24,000 times as much mirex as was present in sea water in which the shrimp were kept.

Dr. Ferguson points out that commercial production of catfish in the South has become a major industry, with Mississippi said to lead all states in production. Since mirex is to be applied to catfish ponds in the planned eradication program, the catfish industry could be destroyed, he warns. What would happen, Dr. Ferguson asks, if tolerance levels should be placed on permissible mirex residues in catfish destined for interstate commerce? DDT, the most studied pesticide in history, was used 25 years before a 5ppm tolerance was placed on residues in commercial fish. Mirex

is virtually unstudied, more stable than DDT, and a known carcinogen. The contamination of catfish ponds would represent a tremendous economic risk.

Data collected by the USDA (6) reveal the detrimental effects of three mirex treatments. In Oktibbeha County, Mississippi, 1.25 pounds mirex bait per acre was applied in October, 1968, and again in April, 1969. In the spring of 1970, about a year after the second treatment, the amount of mirex in the fat of various animals was measured by scientists at Mississippi State University (Table 1). Analyses were done by gas-liquid chromatography and, in several instances, confirmed by infra-red spectrophotometry. The successful entry of mirex into food chains is clearly evident in these data.

TABLE 1. RANGE OF MIREX RESIDUES IN SAMPLES TAKEN IN AREAS TREATED TWICE WITH MIREX (Animal samples based on fat)

Sample	Number	Mirex (ppm)
Birds:		
Robin	2	35.14 - 56.54
Wild Turkey*	7	0.01 - 1.61
Quail*	12	0.00 - 3.15
Bluejay	3	5.10 - 104.39
Brown Thrasher	4	19.98 - 59.93
Redwing Blackbird	2	5.78 - 6.37
Eastern Kingbird	1	18.09
Catfish	2	5.98 - 11.25
Deer*	9	0.00 - 0.31
Beef Cattle	5	0.00 - 0.11
Milk	2	0.01 - 0.02
Forage	2	0.00

*All samples may not have come from treated area.

Although the fire ant is a nuisance, few entomologists consider it a serious economic pest. The ant has seldom been reported to be detrimental in its feeding (1). Insects, insect products, and other invertebrates form the major part of its diet. There seems to be no valid reason for treating ants in areas uninhabited by human beings, and landowners can effectively control ants by treatment of individual mounds (1). Several entomologists have expressed reservations in letters to Dr. Ferguson as to whether the proposed program can actually "eradicate" the fire ant from such a vast area. [It seems highly dubious to us also.]

The Sport Fishing Institute agrees with Dr. Ferguson's contention that there is ample justification, in the foregoing limited information, for delaying the fire ant eradication program. It should proceed only when adequate research and assurances indicate that the environment will not be indiscriminately assaulted and damaged.

REFERENCES: (1) Green, H. B. 1967. *The imported fire ant in Mississippi*. Mississippi State University, Agricultural Experiment Station Bull. 737. 23 p. (2) Van Valin, C. C., A. K. Andrews and L. L. Eller. 1968. *Some effects of mirex on two warm-water fishes*. Trans. Amer. Fish. Soc. 97:185-186. (3) Report of the Secretary's Commission on pesticides and their relationship to environmental health. 1969. U. S. Govt. Print. Office, Washington, D. C. (4) Ware, G. W. and E. E. Good. 1967. *Effects of insecticides on reproduction in the laboratory mouse*. Toxicology and Applied Pharmacology 10:54-61. (5) Bureau of Commercial Fisheries. *Quarterly reports for the Biological Field Station at Gulf Breeze, Florida*. April 1-June 30, 1969; October 1-December 31, 1969. Unpublished. (6) Agricultural

Research Service, USDA. 1969. *Quarterly report of research and methods improvement for the imported fire ant*. Report No. 69(3). September 30, 1969. Unpublished.

FISHING IN THE DRINK

A joint task force of the Resources Agency of California and the Human Relations Agency of California has studied 37 presently-closed water supply reservoirs and identified 15 as having "a high potential for recreation near cities." The task force reported that these waters, which have a total of 10,000 surface acres, could support about 850,000 angler-days of use per year by fishermen with modest supplemental stocking of fish. Additional recreation also could be available with facilities for boating, camping, picnicking and hiking.

The well-qualified task force (Alex Calhoun, Department of Fish and Game, John M. Heslep, Department of Public Health; and Henry Hjersman, Department of Parks and Recreation) noted that most public health officials agree that limited recreation on water supply reservoirs under appropriate regulation presents no threat if the water is properly filtered and chlorinated prior to domestic use. They noted, although the cost of filtration facilities has been an obstacle in the past, that the State Department of Public Health now recommends filtering all domestic water supplies from surface sources in the interest of public health, whether or not they are used for recreation.

Extensive water filtration facilities must be constructed for many of these presently-closed reservoirs before they can be opened for recreational use such as sport fishing. State public health regulations and public sentiment prohibit body contact sports such as swimming and water-skiing in water supply reservoirs, but the task force reported that even swimming presents no special health hazard provided the water is completely treated before it is used for domestic purposes. Probably more important from a health standpoint, and an obstacle from the cost standpoint, is installation and maintenance of on-site sanitary facilities for recreational users.

The closed water supply reservoirs with good recreational potential range in size from 120 surface acres to 1,700 surface acres. All except one of them are located within one hour's drive of populous urban areas having urgent need to utilize such recreational resources. The task force noted that the trend toward allowing recreation on this type of reservoir in California has been strong, with 49 reservoirs comprising 83,000 surface acres of water having been opened in the state thus far. The report said the demand for fishing and other outdoor recreation near metropolitan centers is high. Because wild fish production in these waters could support only about 400,000 angler-days of use per year, supplemental stocking of fish will be needed. If small fees were levied and the funds used for additional stocking—now the practice at several southern California lakes—the recreational potential could be increased to 1,700,000 angler-days of use annually.

MERCURY POLLUTION

According to an administrative background factual paper on mercury pollution, prepared in the Canadian Department of Fisheries and Forestry (Ottawa), control of

mercury poisoning would be simplified if it were known at what level mercury starts to do its damage in the human body. Unfortunately this fact is not definitely known and consequently attempts to establish "daily allowable intakes" of mercury are severely handicapped.

In Sweden, the National Institute of Public Health set the "safe" level of mercury content in fish at one part per million and recommended that fish from inland and coastal regions not be consumed more than once a week. The average consumption of fish in Sweden is about 44 pounds per person per year—about three times the Canadian average consumption [about four times the U. S. average consumption].

Two Swedish scientists have calculated a safe daily allowable intake at 0.06 milligrams of mercury. This is based on the fact that the body excretes mercury over a period of time and the assumption that brain tissue will not be damaged if the level remains below 8 ppm. Mercury in the body has been calculated to have a "half-life" of about 70 days; that is to say, the body will dispose of half of its concentration in 70 days, half of the remainder in the next 70 days, and so on (providing, of course, there is no further intake of mercury). Fish excrete mercury at about the same rate.

Canada's Food and Drug Directorate has taken no objection to the sale of fish containing 0.5 ppm or less of mercury. This level is also accepted by U. S. federal health authorities. The World Health Organization has suggested the level of mercury in the *total* food supply should not exceed 0.05 ppm. The Benelux countries have established a maximum permissible concentration in food of 0.03 ppm of mercury from whatever source.

In recent U. S. developments related to the mercury pollution problem, Interior Secretary Walter J. Hickel has ordered federal scientists to find all sources of mercury discharge into the nation's waterways. The Federal Water Quality Administration already has initiated intensive nationwide monitoring of waterways to detect the sources. Secretary Hickel has now strengthened this effort by assignment of a special investigating team from the U. S. Geological Survey to aid the FWQA. The purpose is to pinpoint all areas of mercury contamination and provide the basic data needed for effective control.

Secretary Hickel stated that discharges of mercury present an "intolerable threat" to the environment and safety of Americans, and pledged to put a stop to this dangerous practice. Hickel said that his department "is developing hard evidence and will seek court action in any confirmed case of mercury pollution if corrective measures are not taken swiftly on local levels."

Toward this end, the Secretary has directed the Geological Survey, in cooperation with the FWQA, to give high priority to mercury monitoring in the Department's national network of 4,000 water quality stations. In a mid-July progress report to the Secretary, Dr. William T. Pecora, Director of the U. S. Geological Survey, said basic data already have been collected in 16 states using a precise analytical method recently developed in the Geological Survey's Denver Research Center. The remaining states will be covered at the earliest possible date to provide a complete picture of the mercury contamination pattern.

It seems to us that it is important that this work be expedited and results made public at an early date. Factual

information on the extent of the problem, and its exact pattern of localized distribution, is urgently needed to avoid undue public hysteria as well as to permit quick effective control of the problem. The first prerequisite to correction of past sins in this matter is to choke off the sources. Isolation of the more difficult problem localities may then be achieved permitting their gradual elimination. Only by this means can rational management be substituted for hysteria—and it can come none too soon in this instance, before people become too alarmed to continue fishing in mercury-safe waters, undoubtedly the vast majority . . .

LEGAL THERMAL FISH-KILLS

In July, 1969, all the fish hatcheries in the Southeastern United States received word that the School of Engineering at Vanderbilt University wanted more than 1,000 bluegill sunfish. Shortly thereafter, James Speakman, a graduate student in the Department of Environmental and Water Resources Engineering at Vanderbilt commenced the first known experiment in the country on the effects of the rate of temperature change on fish.

According to Speakman, it has become apparent only in the last few years that the drastic temperature changes caused by power plants dumping hot water into streams is a cause of fish deaths. Biologists know the general range of temperature many fish can withstand, but Speakman's experiment seeks to find how rapidly the temperature can be changed within these limits without damage to the fish. Speakman said: "There have been about ten reported incidents of fish dying from thermal pollution or degradation of water by heat as of May, 1968. In these ten cases, temperature was unquestionably the killer, but it is difficult to separate the effects of temperature from other effects of pollution."

Water from nearby streams is used by power plants to cool the steam-powered generators used to generate electricity. The water is then dumped back into the stream at a 10 to 30 degree increase in temperature. For warmwater fish in Tennessee streams, such as bass and bluegills, the standards are set and enforced by the state. For Tennessee streams, for example, the legal maximum temperature under the standards is 93 degrees Fahrenheit. No violations of the Tennessee standards have been reported or brought to court thus far. Yet Speakman has found that the rate of change within the legal limit can be deadly—and there is no legislation on this aspect of pollution.

Theoretically, an industry could kill fish within the limit of the law. From his studies to date, Speakman has concluded: "A change of 27 degrees Fahrenheit in three hours results in 100 per cent mortality among bluegills. Such a change is certainly possible in terms of power-plant operations."

Speakman is also conducting experiments on rapid temperature *decrease*, which may be a problem with the warmwater fishes of Tennessee (and other states). Temperature decreases would have to be "drastic" to have an adverse effect on bluegills. The problem of temperature decrease is created when a hydroelectric dam resumes operation after it is closed for the weekend and deep, cold water is released into the shallow, hot water downstream.

Although no direct studies have been done on this aspect

of thermal pollution, it very well may be a problem prevalent in the TVA stream system (and elsewhere). This is one reason why Speakman chose bluegills, abundant in Tennessee waters, as his experimental species. Also, the bluegill is so hardy that if thermal pollution is a severe problem for the bluegill, it would certainly also be a severe problem for the many other less-hardy species.

The most practical reason for using bluegills is that this kind of sunfish is a very common species. Even so, some difficulty developed in obtaining the 1,000 bluegills he needed for the experiment when he needed them. For the accuracy of the experiment, Speakman required that all the fish should come from the same population. But when he contacted the Tennessee Game Fish Hatchery in Springfield, he found they did not have enough available at the particular time of need. He then wrote the U. S. Fish and Wildlife Service asking the "whereabouts" of some 1,000 bluegills.

The Atlanta regional office of the Service's Bureau of Sport Fisheries and Wildlife sent out an "all-points-bulletin" to the 19 national fish hatcheries in the Southeast region. Only one of these hatcheries, located in Corning, Arkansas, had a sufficient population to meet the need. In an outstanding example of federal public service, a special Bureau tank-truck, equipped with cooling and aeration devices, delivered the needed 1,000 bluegills to the doorstep of the School of Engineering. Fortunately for the success of this pioneering study, the investigator was not troubled by one of the biggest problems of keeping fish in the laboratory—epidemic disease.

Speakman's research was made possible in part by a \$1,500 grant from the Sport Fishing Institute. The designation of the grant by SFI to a researcher in a school of engineering is unprecedented and indicates the great significance of this kind of research to fish conservation.

TROUTING REGULATIONS

Wisconsin fisheries biologist Robert L. Hunt has performed a useful service to trout anglers and fisheries managers, alike, by preparing Wisconsin DNR Research Report 54, entitled A COMPENDIUM OF RESEARCH ON ANGLING REGULATIONS FOR BROOK TROUT CONDUCTED AT LAWRENCE CREEK, WISCONSIN. In this summary (a D-J federal-aid report), Hunt presents the major findings, conclusions and management implications derived during 13 years of testing and evaluating experimental angling regulations applied to the fishery for wild brook trout (*Salvelinus fontinalis*) in Lawrence Creek. Four general types of regulations were tested: size limits, bag limits, fish refuges, and restrictions on fishing methods.

The size limit, if wisely applied, is the best single regulation for preventing excessive angler harvest of brook trout populations. A good "rule of thumb" is a size limit set at the length attained by 30 per cent of the trout population in May, or 40 per cent in June, or 50 per cent in September (excluding age 0). This is 7 inches for the population in Lawrence Creek.

Bag limits provide no protection until the limit is reached, and since most of the catch of wild brook trout consists of 1 or 2 trout per trip, very restrictive bag limits would be needed to substantially reduce the catch. Angling

effort appeared to be influenced by restrictions on the catch.

Angling regulations that allow some harvest or fishing opportunity every year from all fishable trout waters are clearly preferable to elimination of all fishing through creation of fish refuges.

Certain fishermen were attracted by "fly fishing only" regulations, and enjoyed high quality fishing, but there was little difference in other aspects of the fisheries in the flies-only zone versus the any-lure zone, and no detectable responses by the trout populations due to the flies-only restriction.

Details in this paper are worth reading by everyone keenly interested in trout management and fishing. Copies may be secured by writing the Department of Natural Resources, Madison, Wisconsin 53701, and requesting RR54.

AMEN TO THAT

WHEREAS, it has been proposed by the U. S. Army Corps of Engineers to extend navigation on the Columbia River from Pasco, Washington to Wenatchee, Washington; and

WHEREAS, channel dredging would damage fish spawning areas, archeological sites, and riparian habitat; and

WHEREAS, the proposed project is clearly uneconomic; NOW, THEREFORE, BE IT RESOLVED that the National Wildlife Federation in annual convention assembled in Chicago, Ill., March 20-22, 1970, hereby expresses its vigorous opposition to channel modifications of the Columbia River between Richland, Washington and Priest Rapids Dam which would damage riparian habitat, archeological sites, and create conditions detrimental to the spawning of salmon and steelhead trout.

OREGON SPRING CHINOOKS

Anglers fishing the lower Willamette River and the Columbia from Bonneville Dam downstream to Astoria enjoyed one of the best spring chinook seasons in a long time. The fine season is revealed by catch records obtained by fishery biologists of the Game Commission who monitored this popular springtime sport salmon fishery.

Jay Massey, fishery biologist on the Willamette, said that through mid-May anglers reported taking 16,700 spring chinook. He expected this figure to increase by about another 1,000 fish when the final tally is complete. Anglers spent almost 115,000 man-days on the river to make the catch. In 1969, sport fishermen spent more than 90,000 man-days on the river to take 16,300 chinook.

Bill Hosford, fishery biologist for the lower Columbia area, said that angling pressure was the heaviest he had ever seen it. Well over 177,000 man-days occurred on the river this spring, almost double the 99,000 man-days spent in 1969. These anglers reported taking just over 29,900 chinook. In 1969 anglers took about 13,500 chinook from the Columbia during the spring angling period.

Both biologists said that water conditions during March, April, and May were ideal for angling, which probably influenced the large increase in angling pressure.

RH Stroud

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August, 1970

ITEMS for Fishery Scientists

from the SPORT FISHING INSTITUTE

719 - 13th Street, N.W., (Suite 503) • Washington, D. C. 20005

Robert G. Martin, Assistant Executive Vice President

WHOA -- NOAA -- The lead articles in the July and August, 1970, SFI BULLETINS -- No. 216 "Federal Reorganization of Environmental Activities," and No. 217 "Federal Environmental Reorganization" -- analyze and highlight current Administration plans to reorganize federal environmental activities and agencies. The far-reaching implications of implementation of the Administration's Reorganization Plan No. 4 "to establish NOAA within the Commerce Department," are well worth careful consideration by all fisheries personnel. Congress is currently considering possible rejection of the Plan to permit more orderly legislative consideration of several alternatives. Comments from knowledgeable fisheries professionals and program administrators would be particularly helpful to the Congress. Recent views expressed by two prominent commercial fisheries scientists pull no punches, viz:

"We read your article on Federal reorganization (SFI BULLETIN 216) with great interest. Any disagreement we may have in detail is trivial in comparison with our broad approval of your comments. This letter offers that approval and contains some comments of our own.

"We should like to emphasize first that conservation was cast of out the BCF[Bureau of Commercial Fisheries] philosophy some time ago. It has been replaced by a doctrine of search and destroy. Rational utilization of commercial stocks is held to be so unimportant in relation to a quick profit that research essential to sound sustained-yield fishing is blandly termed 'irrelevant' to the goals of the Bureau. Research is being curtailed and biological-oceanographic laboratories are scheduled to be reduced to six. The research they do is to be trouble-shooting in immediate service to industry and directed toward taking more fish and shellfish."

NOW is the time to express your views -- this month. Direct your statement by letter or wire immediately to Congressman John Blatnik, Chairman, Subcommittee on Executive and Legislative Reorganization, Committee on Government Operations, House Office Bldg., Washington, D.C. 20515. Time is of the essence!

EUTROPHICATION ABSTRACTS -- The University of Wisconsin (Madison) has established a Eutrophication Information Center to expedite the exchange of information dealing with eutrophication. The Center is sponsored jointly by the Office of Water Resources Research and the Federal Water Quality Administration, U. S. Department of the Interior; the U. S. Department of Agriculture; the Soap and Detergent Association; and the University of Wisconsin.

A major activity is abstracting the pertinent scientific literature and making the abstracts available through the gratis monthly bulletin, EUTROPHICATION ABSTRACTS. Persons interested in receiving the bulletin should contact the Information Center, 913 University Avenue, University of Wisconsin, Madison, Wisconsin 53706.

Researchers in eutrophication are encouraged to forward copies or reprints of their current publications to the Information Center. Within the capability of the operation, abstracts will be prepared and distributed via the abstract bulletin. The voluntary contribution of eutrophication documents, especially the more informal publications, will aid greatly in making pertinent eutrophication literature generally available.

IMPROVED PESTICIDE ANALYTICAL TECHNIQUES--Douglas B. Seba and Charles E. Lane, Institute of Marine Science, University of Miami, have developed improved techniques for the detection of chlorinated hydrocarbon pesticides in fish tissue samples. The chief advantage of the method is its ability to measure the entire pesticide burden of a discrete, submilligram tissue sample, rather than an aliquot from a homogenate of a heterogeneous sample. Recovery of known amounts of added pesticide from gill, brain, blood, liver, gall bladder and muscle of the sailfish molly and tarpon was virtually 100 per cent. As little as 0.01 ppm of heptachlor epoxide, chlordane, dieldrin and DDT in 1 mg. of tissue were measured successfully. Details of the techniques and apparatus used in the study appeared in "Rapid Microdetection of Organochlorine Pesticides in Submilligram Fish Tissue Samples," Bull. of Environmental Contamination and Toxicology, 4(5):297-305, published by Springer-Verlag, New York, Inc.

Improved techniques for separating the ubiquitous polychlorinated biphenyls (PCBs) from pesticide residues in routine pesticide analysis are described in a paper by Lincoln M. Reynolds, "Polychlorobiphenyls (PCBs) and their Interference with Pesticide Residue Analysis," which appeared in the Bull. of Environmental Contamination and Toxicology, 4(3):128-143. PCBs are similar in structure to the DDT pesticide group and conventional pesticide extraction and screening procedures such as gas-liquid chromatographic electron capture analysis, fails to reveal their presence. By using a Florisil column and eluting PCBs with n-hexane, the author was able to effectively separate PCBs from other pesticides. Other recent studies have shown that up to 20 per cent of pesticide residues identified as DDT by conventional methods were actually PCBs.

CAREER OPPORTUNITIES -- VIRGINIA INSTITUTE OF MARINE SCIENCE -- Ecologist -- One Position -- Incumbent must be qualified to contribute to a group effort in describing the community structure and trophic dynamics of estuarine fish nurseries and to elucidate the water quality criteria necessary to their productivity. Ph.D. desirable, but well-qualified M.S. candidate will be considered. Salary range from \$13,000 to \$18,000.

Population dynamicist -- One position -- Requires participation in research on the biology of several species of exploited and unexploited fishes with responsibility for designing and teaching a graduate-level course in population dynamics. Ph.D. required. Salary range from \$13,000 to \$18,000.

Qualified applicants should contact Jackson Davis, Senior Marine Scientist, Virginia Institute of Marine Science, Gloucester Point, Virginia 23062.

ONTARIO, CANADA -- Research Scientist -- One position -- Involves carrying out a comprehensive program of research on walleyes to maintain and increase yield for recreational and commercial purposes. Salary range from \$14,700 to \$18,200 (\$15,400 to \$19,300 effective September 27, 1970), for incumbent with Masters or Ph.D. degree with several years related experience and demonstrated competence in fisheries research as shown by publication of scientific papers of high standard. Less qualified applicants may be considered at salary range of \$9,000 to \$10,500 (\$9,500 to \$11,100 effective September 27, 1970). If interested, submit resume as soon as possible to File LF-125, Recruitment Branch, Department of Civil Service, 151 Bloor Street West, Toronto 181, Ontario, Canada.

UNFAO -- ROME, ITALY -- Permanent Appointment -- Fishery Biologist, P 4 -- One position -- Under the direction of the Chief, Marine Biology and Environmental Branch, Fisheries Resources Division, the incumbent will be responsible for developing and promoting research programs in marine fisheries with particular emphasis on resource surveys with exploratory fishing. Requires university degree in biology, oceanography, fishery sciences or related fields with 7 years experience in planning, conducting, and supervising fishery research and very good knowledge of either English, French or Spanish. Gross salary range from \$15,260 to \$20,490 plus family and cost-of-living allowance. Vacancy Announcement No. 50-FIR. If interested, apply to Chief, Recruitment Section, Office of Personnel, FAO, Via delle Terme di Caracalla, Rome 00100, Italy.

Massachusetts: Research, 1 position. Degree in Biochemistry and several yrs. experience, \$9,500-\$12,000. Combination Mgt.-Res., 1 position. Degree in statistics and no experience, \$8,000-\$9,700. Extension Agents, 3 positions. B.S. degree and several yrs. experience, \$8,500-\$10,500. Contact: Charles Anderson, Div. of Marine Fisheries, Dept. of Natural Resources, 100 Cambridge Street, Boston, Massachusetts 02202.

Missouri: Management, 2 positions. Starting salary with M.S. and no experience, \$8,148. Hatchery, Management, 1 position. B.S. and 1 yr. experience, \$7,392 to start. Contact: Charles Purkett, Chief, Division of Fisheries, Dept. of Conservation, P.O. Box 180, Jefferson City, Missouri 65101.

Michigan: Management, 1 position. B.S. degree and 2 yrs. fishery experience. Biometrician, 1 position. B.S. degree with minimum of 8 credits in biometrics or statistics or B.S. in biometrics with minimum of 12 semester hours in natural science. Also, requires 3 yrs. experience as a biometrician. \$8,727-\$12,298. Contact: M.E. Southworth, Chief; Personnel Division, Dept. of Natural Resources, Stevens T. Mason Building, Lansing, Michigan 48926.

Nevada: Combination Mgt.-Res., 2 positions. B.S. and no experience, \$7,125-\$9,532. Contact: James F. Wittenberg, Administrator, Personnel Division, Fish and Game Commission, Blasdel Bldg., Room 200, Carson City, Nevada 89701.

New York: Conservation Department -- Marine and Coastal Resources Division -- Research, 1 position. B.S. and no experience, \$8,034-\$9,854. Contact: Francis C. Ducharme, State Conservation Dept., 50 Wolf Road, Colonia, N.Y. 12205.

Oklahoma: Research, 1 position; Combination Mgt.-Res., 1 position. B.S. and no experience, \$6,416-\$9,701. Contact: Leland Roberts, Assistant to the Director, Dept. of Wildlife Conservation, 1801 N. Lincoln, Oklahoma City, Okla. 73105.

Texas: Coastal Fisheries Research, 1 position. B.S. and no experience, \$7,560-\$10,176. Contact: James D. Archer, Personnel Director, Parks and Wildlife Department, Reagan State Bldg., Austin, Texas 78701.

West Virginia: Management, 2 positions; B.S. and no experience, \$6,840-\$8,940. Combination Mgt.-Res., 1 position. M.S. and no experience, \$7,620-\$10,440. Contact: D. W. Robinson, Asst. Chief, Wildlife Resources Div., Department of Natural Resources, 1800 Washington Street, East, Charleston, W. Virginia 25305.

U.S. Bureau of Sport Fisheries and Wildlife: A total of 19 vacant positions in Divisions of Research, River Basins, Federal Aid. Contact: Theodore C. Krell, Personnel Officer, Bureau of Sport Fisheries and Wildlife, U. S. Dept. of the Interior, 18th and C streets N.W., Washington, D.C. 20240.

Tennessee Valley Authority: Research, 1 position; Combination Mgt.-Res., 1 position. Ph.D. and no experience, \$12,800-\$16,700. Contact: Albert K. Leamon, Division of Forestry, Fisheries, and Wildlife Development, Tennessee Valley Authority, Norris, Tennessee 37828.

Ontario, Canada: District Biologist, 2 positions. B.S. degree and 2 yrs. experience, or M.S. degree and 1 yr. experience, \$8,996-\$10,920; Commercial Fishing Quotas, 1 position. Degree in biology and 3 yrs. experience, or M.S. degree and 2 yrs. experience, \$10,868-\$12,778. Hatchery Manager, 1 position. B.S. degree in biology and 2 yrs. experience, or M.S. degree and 1 yr. experience, \$8,996-\$10,920.



SPORT FISHING INSTITUTE

719 - 13th Street, N.W. (Suite 503) • Washington, D. C. 20005

MEMORANDUM

TO: Fishery Biologists

FROM: R. G. Martin, Assistant Executive Vice President

SUBJECT: Fishery Research and Management Positions Available
July 1, 1970.

- Alabama: Research, 2 positions. M.S. and no experience or B.S. and 2 years experience, \$9,321-\$11,492. Contact: Mr. Thomas E. McKinney, Alabama Department of Conservation, 64 N. Union Street, Montgomery, Alabama 36104.
- Alaska: Department of Fish and Game -- Sport Fish Division -- Combination Mgt. - Res; 3 positions. B. S. and 1 yr experience, \$9,444-\$10,176 (1 position) and B.S. and 2 yrs. experience, \$11,796-\$12,636 (2 positions) -- Commercial Fisheries Division -- Management, 9 positions. B. S. and 1 yr. experience, \$10,176 to start; and 3 yrs. experience, \$12,636. Research 3 positions. B.S. and 1 yr. experience; \$10,176; B.S. and 4 yrs. experience, \$13,596; B.S. and 6 yrs. experience, \$15,744. Contact: David W. DeLong, Subport Bldg., Juneau, Alaska 99801.
- California: Management, 3 positions; Research, 4 positions; combination Mgt. - Res., 3 positions. B.S. and no experience, \$7,728-\$8,952; B.S. and 2 yrs. experience, \$8,604-\$10,440; B.S. and 3 yrs. experience, \$10,356-\$12,576. Competitive examination, given only in California, required. Contact: William James Leslie, Personnel Officer, California Department of Fish and Game, 1416 Ninth Street, Sacramento, California 95814.
- Colorado: Research, 1 position. M.S. and 2 yrs. experience, \$9,624-\$12,900. Open only to Colorado residents. Contact: C. R. Wilson, Personnel Officer, Division of Game, Fish and Parks, 6060 North Broadway, Denver, Colorado 80216.
- Connecticut: Combination Mgt. - Res., 2 positions. B.S. and 1 yr. experience, \$8,623-\$11,367. Administration; 1 position. B.S. and 2 yrs. experience, \$9,601-\$12,537. Contact: Cole W. Wilde, Chief, Fish Division, Board of Fisheries and Game, State Office Bldg., Hartford, Connecticut 06115.
- Florida: Management, 2 positions. B.S. and no experience, \$7,380-\$10,092. Research 1 position; Combination Mgt.-Res., 2 positions. M.S. and 1 yr. experience or B.S. and 3 yrs. experience, \$8,220-\$11,340. Ten percent above starting salary for applicants with advanced degrees. Contact: David Swindell, Personnel Officer, Game and Fresh Water Fish Commission, 620 S. Meridian, Tallahassee, Florida 32304.
- Georgia: Combination Mgt.-Res., 3 positions. M. S. and no experience, \$8,112-\$10,380. Contact: William Stybark, 270 Trinity-Wash, Bldg., Atlanta, Georgia 30334.
- Idaho: Research, 1 position. M.S. and no experience, \$7,320-\$9,348. Contact: Idaho Personnel Commission, State House, Boise, Idaho 83702.
- Indiana: Management, 3 positions. B. S. and no experience, \$7,560-\$9,420. Combination Mgt.-Res., 1 position. B.S. and 3 yrs. experience, \$9,000-\$11,280. Contact: Kenneth Nettles, Dept. of Natural Resources, Division of Fish and Game, 607 State Office Bldg., Room 607, Indianapolis, Indiana 46204.
- Iowa: Research, 1 position. B.S. and 2 yrs. experience, \$8,076-\$10,824. Contact: Charles H. Edelen, State Conservation Commission, Valley Bank Bldg., 4th and Walnut, Des Moines, Iowa 50308.
- Kentucky: Hatchery Superintendent, 1 position. B.S. and 6 yrs. experience, \$9,384-\$13,200. Contact: Charles C. Bowers, Director, Div. of Fisheries, Dept. of Fish and Wildlife Resources, State Office Bldg. Annex, Frankfort, Kentucky 40601.
- Louisiana: Research, 1 position; Combination Mgt.-Res. 3 positions. B.S. and no experience, \$7,200-\$10,800. Contact: William McCarroll, Personnel Director, Louisiana Wildlife and Fisheries Comm., 400 Royal Street, New Orleans, La. 70130.

Paul Neth - for your information

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

August 21, 1970

Mailing Address:

*Fernow Hall, Cornell University
Ithaca, N. Y. 14850*

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

CONSERVATION DEPARTMENT
RECEIVED

AUG 27 1970

DEPARTMENT OF FISH
RESEARCH

The New York Chapter of the American Fisheries Society is cooperating with the Department of Conservation at Cornell in arrangements for a pre-A. F. S. Centennial tour of fishery facilities in the Ithaca, New York area. This was initially organized for the Cooperative Fishery Units and a list of these individuals attending and a tentative itinerary are enclosed. We wish to extend the invitation to others that may be interested, especially those traveling from a distance. Since we understand you will be in New York for the A. F. S. Annual Meeting, we would like to invite you to join this tour group if your schedule will allow spending September 12 and the morning of September 13 with us.

If you wish to attend, please complete and return the enclosed form at your earliest convenience. Please note that we are planning to provide or arrange transportation from the Syracuse Airport Inn to various tour points on Saturday and Sunday and to make reservations for your Saturday night lodging in Ithaca. Attending individuals are asked to make their own reservations at the Syracuse Airport Inn for the night of September 11 and to make their own plane reservations from Ithaca to New York City if they prefer to fly.

Sincerely,

Paul Neth
President
New York Chapter
American Fisheries Society

Dwight A. Webster
Head of Conservation
Department

DAW:cmw
Enclosures



Please Mail To:

Mrs. Alice Klock
118 Fernow Hall, Cornell University
Ithaca, New York 14850

1. Name: _____ 2. Phone No. _____

3. Address: _____

4. Names of others in your party:

5. If you wish us to make reservations for you at the Sheraton Motor Inn for the night of Sept. 12:

In whose name: _____

Number of rooms desired:

Single (\$13 - \$14) _____

Twin (\$20.00) _____

Double Bed (\$16.00) _____

6. Are you planning to drive to Syracuse? _____
If yes, how many additional passengers could you drive:

(a) To Oneida Lake and Ithaca _____.

(b) From Ithaca to New York City _____.

If no, would you like a ride to N.Y.C. (perhaps sharing the cost of gasoline)? _____

-or would you prefer to make other travel arrangements from Ithaca to N.Y.C.? _____

7. Space below for comments, suggestions, slurs, etc.

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NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

MESSAGE FROM THE PRESIDENT - 1970

Another year has passed! In less than three weeks from now, on December 4-5, the annual meeting of the New York Chapter of the American Fisheries Society will take place at the Gotham Inn in Syracuse. To highlight this year's meeting your Program Committee under the Chairmanship of Howard Loeb, has worked hard and imaginatively to develop a stimulating program around the subject of computers. Entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry", the program offers our members another opportunity to broaden their professional outlook as well as to participate in a demonstration of the practical application of computers to our field. It is also the time of the year that our members can renew old acquaintances, discuss the internal workings of the Chapter, its programs and their future direction and lay plans to keep the organization viable and effective in its drive to achieve its goals.

Other committees have worked diligently and the business session is expected to be informative as well as lively. Items to be discussed will include our participation in the upcoming Natural Resources Conference, licensing of fishery biologists in New York, status of the Careers in Aquatic Sciences film, the proposed awards systems and any items which you have been considering for the past year. A major decision will have to be made involving Section 2 of our proposed bylaws (Membership and Dues) as it relates to the "Affiliate" member category. The AFS Executive Committee did not approve this section as the constitution and bylaws of the parent society do not provide for this membership category.

Make your reservations now and come to have a good time. Many thanks for your help throughout the year and I'll see you at Syracuse.

Paul Neth

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Bonnie —

Attached is some material relating to NYC AFS activities which you asked about yesterday October 6.

Please return this to me when you are done with it.

I called Steve Jenkins last night for information on the status of the film. This will be slanted toward careers in aquatic sciences with an ecological and hopefully educational (public) message. ^{Although script development was under way} Progress has been hampered by inadequate funding, however this was corrected through grants from the:

New York Conservation Council and American Game Association Foundation

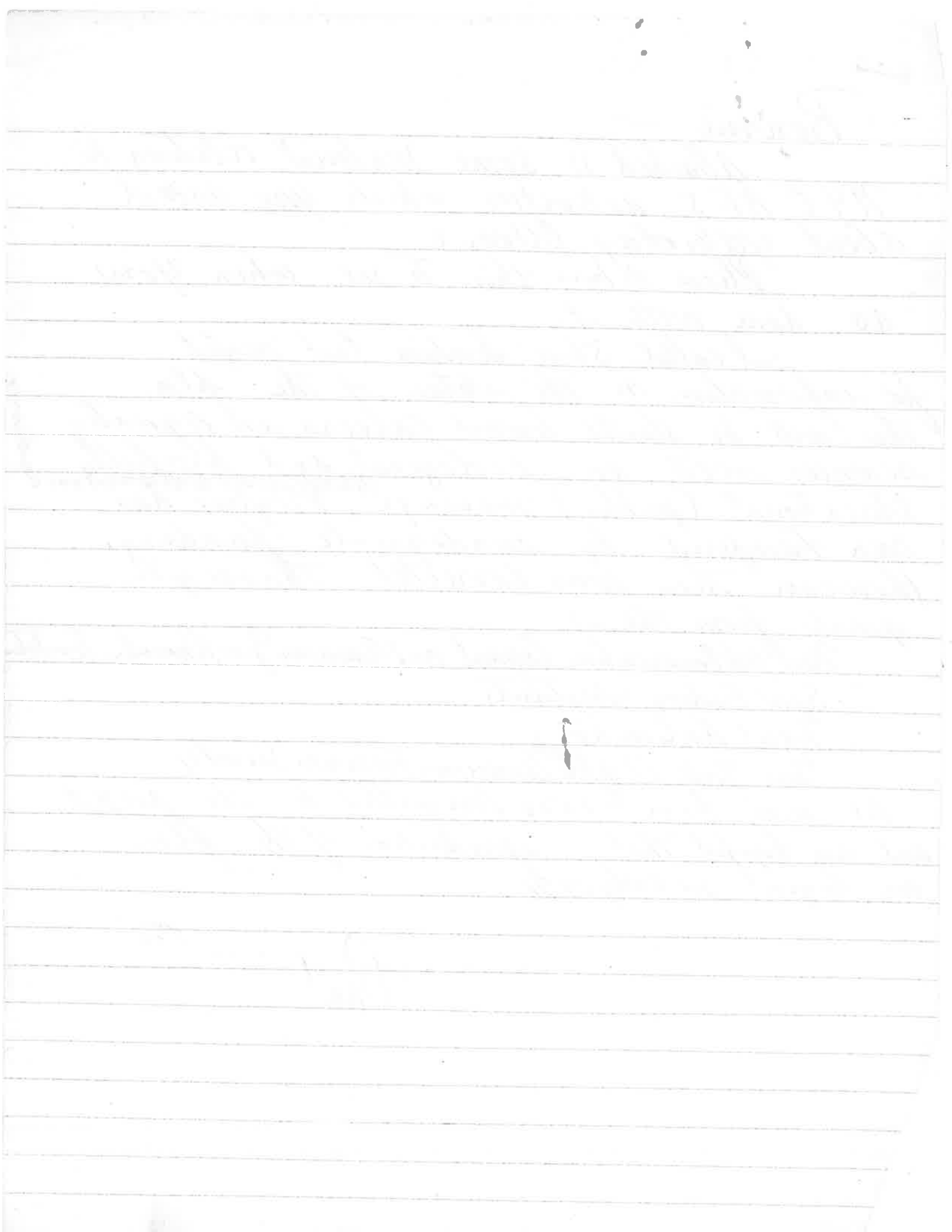
Sport Fishing Institute

Trout Unlimited

New York Chapter American Fisheries Society

We now have \$2500 committed to the project and are hopeful that production of the film can begin in early 1971.

Paul.



Bonne

This year's would be 4th

New York Chapter, American Fisheries Society

Activities Report for 1969-1970

The annual meeting of the New York Chapter of the American Fisheries Society was held at Syracuse on December 4-5, 1969 in conjunction with the New York Fish and Wildlife Resource Conference. This was the third annual conference jointly sponsored by our Chapter and the New York Chapter of the Wildlife Society. The theme of the program was entitled "Meeting the Future Demands of Our Fish and Wildlife Resources" and a panel discussion held on the morning of December 5, revolved about this topic. In the afternoon, another panel discussion covered various aspects of "Management Measures to Meet the Needs of Fishing and Hunting". Panelists were challenged by uninhibited and vigorous questioning from an audience of over 200 people. Program chairmen, Dr. Alfred Eipper (Fish) and Dr. Donald Behrend (Wildlife), and their respective committee members did an outstanding job in program development and their efforts were greatly appreciated. I might add that our conference themes have been rather general in nature in an effort to encourage broader thinking on resource problems by our members.

Highlights of our 1969 business meeting were as follows:

1. Dr. Robert Hutton described plans for the coming AFS Centennial meeting as well as some of the problems facing the Society.
2. Dr. Dwight Webster, President of the N.E. Division of the AFS presented our Chapter with its charter from the parent society.
3. The preliminary draft of our Chapter bylaws were discussed, amended and finally adopted and it is now on its way for review by the AFS Executive Committee.
4. A very active Professional Standards Committee, under the direction of Professor Steven Simkins, is working on the development of a film depicting the activities of aquatic scientists in solving environmental and management problems related to maintenance of habitat quality and stocks of fishes and other aquatic organisms. One of the prime objectives would be to stimulate interest in aquatic biology as a profession, especially in the fisheries field.
5. Our Heraldic Committee, under the direction of the irrepressible Mr. Martin Pfeiffer, continued work on the design of a lapel pin.

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6. Mr. David Green, Chairman of the Resolutions Committee, presented one resolution recommending legislation to eliminate the use of chlorinated hydrocarbons by 1971 except under emergency conditions approved by the Departments of Health and Conservation and urging research by the State to develop alternate methods, safer pesticides and improved methods of pesticide application. The resolution was approved.

Officers elected for 1970 are as follows:

Paul C. Neth	President
Robert H. Griffiths	Vice-President
Kenneth Wich	Secretary-Treasurer

Our 1970 program has not been developed at this time as committees are just being formed. However, definite goals have been set in the areas of film development and awards to members. We have also offered the assistance of our 115 enthusiastic Chapter members to the Centennial Arrangements Committee.

Paul C. Neth, President
New York Chapter, American Fisheries
Society



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AGENDA

NEW YORK CHAPTER, AMERICAN FISHERIES SOCIETY

ANNUAL MEETING, DECEMBER 4, 1970

1. Call to Order - President's Remarks - Paul Neth
2. Membership Count
3. Introduction of Guests
4. Adoption of Minutes of Previous Meeting
5. Report of Secretary-Treasurer - Kenneth Wich
 - a. Old business completed
 - b. Communications
 - c. Financial Report
6. Report of Committees:
 - a. Auditing - Walter Keller, Chairman
 - b. Program - Howard Loeb, Chairman
 - c. Membership - Robert Griffiths, Chairman
 - d. Professional Standards - Steven Simkins, Chairman
 - ~~e.~~ Resolutions - Richard Schaefer, Chairman
 - ~~f.~~ Ad-hoc Licensing - John Gould, Chairman
 - ~~g.~~ Bylaws - Eli Dietsch, Chairman
 - h. Awards - Donald Pasko, Chairman
7. Old Business
 - a. Centennial activities
 - b. Other
8. New Business
 - a. Natural Resource Conference - John Gould
 - b. Other
9. Report of Nominating Committee - John Forney, Chairman
10. Election of Officers
11. Comments from newly elected President
12. Adjournment

Parliamentation for 1970 meeting - James Lindsey

RESOLUTION NO. 1

FUNDING OF LAMPREY CONTROL IN LAKE ONTARIO

WHEREAS, sea lamprey predation, alone or in conjunction with other factors, has been a major cause for the decline of salmonid fishes in the Great Lakes, and

WHEREAS, the development of a salmonid fishery in Lake Ontario has neither been possible nor can be expected without lamprey control, and

WHEREAS, the economy of Lake Ontario communities would be greatly enhanced by the development of a salmonid sport fishery, and

WHEREAS, control of lampreys is possible through treatment of spawning tributaries and estuaries with lampreycide, and

WHEREAS, the Great Lakes Fishery Commission is the agency responsible for administering funds and directing lamprey control in the Great Lakes, and

WHEREAS, Lakes Superior, Michigan and Huron have received at least some treatment since 1958 and are scheduled for resurvey and retreatment on a periodic basis, and

WHEREAS, treatment of Lake Ontario, originally scheduled for 1970, has been postponed because of the lack of funding necessary to conduct both this and expanded control programs on the upper Great Lakes, and

WHEREAS, the State of New York and Province of Ontario have already completed the survey phase independently, and

WHEREAS, the Province of Ontario plans to proceed with the treatment of Canadian waters in 1971, and

WHEREAS, it is imperative that New York carry out treatment during the same year in which Ontario will treat in order to achieve maximum effectiveness,

THEREFORE, NOW, BE IT RESOLVED, that the New York Chapter of the American Fisheries Society urge the Great Lakes Fishery Commission to make every effort to obtain the needed ~~additional~~ funds to treat New York's Lake Ontario tributaries and estuaries in

REPORT OF THE COMMISSIONER OF THE GREAT LAKES

REPORT OF THE COMMISSIONER OF THE GREAT LAKES

...the supply production, along an in control of the
other factors, has been a major cause for the decline of salmon
fishes in the Great Lakes, and

...the development of a salmon fishery in Lake Ontario
has not been possible for as expected without further work
and

...the success of Lake Ontario salmon fishery will be
greatly enhanced by the development of a salmon fishery
and

...control of impure is possible through treatment
of spawning tributaries and estuaries with limonite, and

...the Great Lakes Fishery Commission in the agency
responsible for administering funds and directing fishery control
in the Great Lakes, and

...Lake Superior, Michigan and Huron have received at
least some treatment since 1916 and are scheduled for re-survey and
treatment on a periodic basis, and

...treatment of Lake Ontario, originally scheduled for
1970, has been postponed because of the lack of funds necessary
to conduct such time and expanded control program on the upper
Great Lakes, and

...the State of New York and Province of Ontario have
already completed the survey phase independently, and

...The Province of Ontario plans to publish a
treatment of Canadian waters in 1971, and

...it is regrettable that New York and Ontario
during the same year in which Ontario will start in order to
achieve maximum effectiveness.

...that the New York Chapter of
the American Fisheries Society in the Great Lakes Fishery Commission
wishes to make every effort to obtain the needed additional funds
to Great New York a Lake Ontario limonite and estuaries in

federal fiscal year 1972 (July 1, 1971 - June 30, 1972) but, failing in this effort, to consider (diverting the necessary funds and manpower from existing programs) on the upper Great Lakes to treat Lake Ontario waters, and

BE IT FURTHER RESOLVED, that the Secretary-Treasurer be instructed to immediately forward copies of this resolution to all members of the Great Lakes Fishery Commission, to the Subcommittee on State, Justice, Commerce and Judiciary of the House Committee on Appropriations, to the Subcommittee on State, Justice and Commerce, the Judiciary and Related Agencies of the Senate Committee on Appropriations, and to all other appropriate legislators, persons or agencies in authority.

Federal fiscal year 1972 July 1, 1971 - June 30, 1972. This
is in this report to assist in the review of the
program and existing records of the program in
the country.

As in previous reports, the Secretary-General
has been requested to forward copies of this report to all
members of the United Nations, the Secretary-General
of the United Nations, the Secretary-General of the
Organization of American States, the Secretary-General
of the Caribbean Community, the Secretary-General
of the Central American States, the Secretary-General
of the Caribbean Community, and to all other appropriate
persons or agencies in accordance with the
provisions of the Charter of the United Nations.

RESOLUTION NO. 2

RE-EVALUATION OF PEST CONTROL PROGRAMS IN NEW YORK

WHEREAS, our environment is presently staggering under the affects of gross misuse of pesticides by informed and uninformed users, and

WHEREAS, the New York State Department of Environmental Conservation is regarded as the authority in proper use and protection of the environment, and

WHEREAS, the New York State Department of Environmental Conservation is presently involved in several plant and animal control programs (e.g., water chestnut control, gypsy moth and saddled prominent control, "trash" fish control in streams and ponds, etc.) which regularly employ the use of chemical compounds, and

WHEREAS, Commissioner Diamond has recently outlined a policy which would require that "anyone who would introduce an alien substance into the environment must first prove that its use will not be harmful and that there is a clear public necessity,"

THEREFORE, NOW, BE IT RESOLVED, that the President, New York Chapter of the American Fisheries Society, be instructed to appoint an ad hoc committee whose duty it shall be to investigate the total effect of specific chemical compounds used by the New York State Department of Environmental Conservation (e.g., Sevin, rotenone, 2, 4-D, etc.) on the environment so far as it is known through a search of the available scientific literature, and

BE IT FURTHER RESOLVED, that this committee shall report its findings to the Chapter at the next annual business meeting, at which time it shall render an opinion to continue or discontinue use of individual compounds, and make recommendations for further inquiry and/or alternative methods of control.

STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WHEREAS, the New York State Department of Environmental Conservation is authorized to regulate the discharge of pollutants into the State waters and atmosphere;

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Report of Awards Committee

In order to determine the desires of the Chapter regarding a proposal by the Executive Committee that an awards system be set up, a questionnaire was sent out to all members. The response was good; 85 replies were received, indicating as follows:

In favor - 79 (93%)	Opposed - 6 (7%)
In favor of an appropriate certificate only - 56 (66%)	
In favor of a cash award only - 3 (4%)	
In favor of both a cash award and an appropriate certificate - 15 (18%)	
In favor of some other type of award (trophy, plaque, pin) - 5 (6%)	

Thirty-eight members provided helpful comments in addition to answering the questions. The most frequent suggestion was that an award not be made routinely on an annual basis. Rather, awards should be made only for truly outstanding achievements; in some years there might be none; in others, one or more. Some not in favor of an awards program warned of the danger of hard feelings developing, particularly if conducted on a competitive, annual basis. Of those in favor, some were of the opinion that an outstanding accomplishment by any member, whether professional or sub-professional and regardless of his particular area in the field of fisheries, was deserving of recognition.

Based on the results of the questionnaire, it appears clear that the great majority of the membership approves the idea of giving special recognition to members who make some outstanding accomplishment in the field of fisheries.

The Committee makes the following recommendations:

1. That an Awards Committee chairman be designated annually to obtain information on achievements and bring them to the attention of the Executive Committee for decision as to whether or not an award is deserved. The following guidelines in making such a decision are suggested:
 - a. An achievement should be truly outstanding and exhibit unusual imagination, originality, ingenuity or personal accomplishment well above ordinary call of duty.
 - b. Achievements by professionals and subprofessionals be considered separately and in relation to the nature of the work normally performed.
2. That awards, if any, be presented at annual meetings with brief citations by the Chapter President.
3. That the award take the form of an appropriately designed, framed certificate signed by the Chapter President.
4. That additional recognition be given by a writeup in The Conservationist and other appropriate media.

Submitted 12/4/70 by

D. G. Pasko
Chairman, Awards Committee
NY Chapter, AFS

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Parliamentation for 1970 meeting - James Lindsey

208 people Joint program

Computer program
Aquatic Sciences

Film (Steve S.)

Awards Programs

Lapel Pin

By Laws (Eli D.)

Last meeting Dec 9 1969

(annual business meeting)

committee meetings

pesticide res.

finance report

434.36

1970 paid membership expenses

Gotham motor 1 NW

wallets res.

reimburse

curriculum plans

post cards stamp

and script (copy)

balance on hand

auditing committee

program committee

membership comm.

114 members

proff standards

Comm. Aquatic Sci

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500.00 SFI

200.00 (people)

1700 NY CONS COUNCIL

release

Spring 1972

Bernie Holtman script

1971

release

Res. Comm.

date

Lamprey Control

TAX EXEMPT STATUS ?



NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

MESSAGE FROM THE PRESIDENT - 1970

Another year has passed! In less than three weeks from now, on December 4-5, the annual meeting of the New York Chapter of the American Fisheries Society will take place at the Gotham Inn in Syracuse. To highlight this year's meeting your Program Committee under the Chairmanship of Howard Loeb, has worked hard and imaginatively to develop a stimulating program around the subject of computers. Entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry", the program offers our members another opportunity to broaden their professional outlook as well as to participate in a demonstration of the practical application of computers to our field. It is also the time of the year that our members can renew old acquaintances, discuss the internal workings of the Chapter, its programs and their future direction and lay plans to keep the organization viable and effective in its drive to achieve its goals.

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Make your reservations now and come to have a good time. Many thanks for your help throughout the year and I'll see you at Syracuse.

Paul Neth

RESOLUTION NO. 1

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WHEREAS, the development of a salmonid fishery in Lake Ontario has neither been possible nor can be expected without lamprey control, and

WHEREAS, the economy of Lake Ontario communities would be greatly enhanced by the development of a salmonid sport fishery, and

WHEREAS, control of lampreys is possible through treatment of spawning tributaries and estuaries with lampreycide, and

WHEREAS, the Great Lakes Fishery Commission is the agency responsible for administering funds and directing lamprey control in the Great Lakes, and

WHEREAS, Lakes Superior, Michigan and Huron have received at least some treatment since 1958 and are scheduled for resurvey and retreatment on a periodic basis, and

WHEREAS, treatment of Lake Ontario, originally scheduled for 1970, has been postponed because of the lack of funding necessary to conduct both this and expanded control programs on the upper Great Lakes, and

WHEREAS, the State of New York and Province of Ontario have already completed the survey phase independently, and

WHEREAS, the Province of Ontario plans to proceed with the treatment of Canadian waters in 1971, and

WHEREAS, it is imperative that New York carry out treatment during the same year in which Ontario will treat in order to achieve maximum effectiveness,

THEREFORE, NOW, BE IT RESOLVED, that the New York Chapter of the American Fisheries Society urge the Great Lakes Fishery Commission to make every effort to obtain the needed additional funds to treat New York's Lake Ontario tributaries and estuaries in

TRANSFERRING OF LAKEWATER CONTROL TO THE PROVINCE

WHEREAS, the Province of Ontario has been a major cause for the pollution of the Great Lakes and the development of a national fishery in Lake Ontario;

AND WHEREAS, the development of a national fishery in Lake Ontario is a matter of national importance and the Province of Ontario is in a position to assume responsibility for the development of a national fishery;

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federal fiscal year 1972 (July 1, 1971 - June 30, 1972) but, failing in this effort, to consider diverting the necessary funds and manpower from existing programs on the upper Great Lakes to treat Lake Ontario waters, and

BE IT FURTHER RESOLVED, that the Secretary-Treasurer be instructed to immediately forward copies of this resolution to all members of the Great Lakes Fishery Commission, to the Subcommittee on State, Justice, Commerce and Judiciary of the House Committee on Appropriations, to the Subcommittee on State, Justice and Commerce, the Judiciary and Related Agencies of the Senate Committee on Appropriations, and to all other appropriate legislators, persons or agencies in authority.

Federal Fiscal Year 1971 - June 30, 1971. This report
has in this effort to consider dividing the research funds and
manpower into various programs on the Great Lakes to create
Lake Ontario waters, and

It is further proposed that the necessary resources be
allocated to specifically research areas of this report and to all
members of the Great Lakes Fishery Commission, to the Subcommittee
on Great Lakes, Commerce and Fisheries of the House Committee
on Appropriations, to the subcommittee on Great Lakes and Great
Lakes, the Judiciary and related agencies of the Senate Committee
on Appropriations, and to all other appropriate legislative
bodies or agencies in authority.

RESOLUTION NO. 2

RE-EVALUATION OF PEST CONTROL PROGRAMS IN NEW YORK

WHEREAS, our environment is presently staggering under the affects of gross misuse of pesticides by informed and uninformed users, and

WHEREAS, the New York State Department of Environmental Conservation is regarded as the authority in proper use and protection of the environment, and

WHEREAS, the New York State Department of Environmental Conservation is presently involved in several plant and animal control programs (e.g., water chestnut control, gypsy moth and saddled prominent control, "trash" fish control in streams and ponds, etc.) which regularly employ the use of chemical compounds, and

WHEREAS, Commissioner Diamond has recently outlined a policy which would require that "anyone who would introduce an alien substance into the environment must first prove that its use will not be harmful and that there is a clear public necessity,"

THEREFORE, NOW, BE IT RESOLVED, that the President, New York Chapter of the American Fisheries Society, be instructed to appoint an ad hoc committee whose duty it shall be to investigate the total effect of specific chemical compounds used by the New York State Department of Environmental Conservation (e.g., Sevin, rotenone, 2, 4-D, etc.) on the environment so far as it is known through a search of the available scientific literature, and

BE IT FURTHER RESOLVED, that this committee shall report its findings to the Chapter at the next annual business meeting, at which time it shall render an opinion to continue or discontinue use of individual compounds, and make recommendations for further inquiry and/or alternative methods of control.

RESOLUTION OF THE BOARD OF HEALTH AND HIGHER LEARNING

WHEREAS, our environment is presently expanding under the effects of great mass of pesticides by industry and agriculture...

WHEREAS, the New York State Department of Environmental Conservation is regarded as the authority in proper care and protection of the environment...

WHEREAS, the New York State Department of Environmental Conservation is presently involved in several pilot and field control programs (e.g., water, insect control, type work and testing)...

WHEREAS, Commissioner Dimond has recently outlined a policy which would require that "anyone who would introduce an insecticide into the environment must first prove that it will not be harmful and that there is a clear public necessity."

WHEREAS, it is recognized, that the President, New York Chapter of the National Farmers Union, be authorized to appoint an ad hoc committee whose duty it shall be to investigate the total effect of pesticide chemical compounds used by the New York State Department of Environmental Conservation in the State...

BE IT FURTHER RESOLVED, that this committee shall report its findings to the Chapter at its next annual business meeting, at which time it shall render an opinion to continue or discontinue use of individual compounds, and make recommendations for further inquiry and/or alternative methods of control.

Report of Awards Committee

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In favor of both a cash award and an appropriate certificate - 15 (18%)
In favor of some other type of award (trophy, plaque, pin) - 5 (6%)

Thirty-eight members provided helpful comments in addition to answering the questions. The most frequent suggestion was that an award not be made routinely on an annual basis. Rather, awards should be made only for truly outstanding achievements; in some years there might be none; in others, one or more. Some not in favor of an awards program warned of the danger of hard feelings developing, particularly if conducted on a competitive, annual basis. Of those in favor, some were of the opinion that an outstanding accomplishment by any member, whether professional or sub-professional and regardless of his particular area in the field of fisheries, was deserving of recognition.

Based on the results of the questionnaire, it appears clear that the great majority of the membership approves the idea of giving special recognition to members who make some outstanding accomplishment in the field of fisheries.

The Committee makes the following recommendations:

1. That an Awards Committee chairman be designated annually to obtain information on achievements and bring them to the attention of the Executive Committee for decision as to whether or not an award is deserved. The following guidelines in making such a decision are suggested:
 - a. An achievement should be truly outstanding and exhibit unusual imagination, originality, ingenuity or personal accomplishment well above ordinary call of duty.
 - b. Achievements by professionals and subprofessionals be considered separately and in relation to the nature of the work normally performed.
2. That awards, if any, be presented at annual meetings with brief citations by the Chapter President.
3. That the award take the form of an appropriately designed, framed certificate signed by the Chapter President.
4. That additional recognition be given by a writeup in The Conservationist and other appropriate media.

Submitted 12/4/70 by

D. G. Pasko
Chairman, Awards Committee
NY Chapter, AFS

PROSPECTUS

1970 JOINT ANNUAL MEETING OF THE STATE CHAPTERS

OF THE

AMERICAN FISHERIES AND WILDLIFE SOCIETIES

Dear Members & Guests:

The program committees of both societies have concurred on an agenda, time, and place, for this year's joint annual meeting. The basic details are outlined below:

PROGRAM THEME: The Use of Computers in Fisheries & Wildlife Management, Research, and Husbandry.

TIME: From 10 AM, Friday, December 4 to 1 PM Saturday, December 5.

PLACE: Gotham Motor Inn, Syracuse. Thruway Exit 35

The Program Committees have chosen the above topic because it is appropos to today's fast moving activities. Computers are used everywhere to store data, sort data, run systems, and in general, to keep tabs and form conclusions from masses of facts. It might be said that computer-using organizations are often ahead of the game because they have the stored facts on tap, to be used when needed. In plain language, retrieval of data from a mass of paper in a file would be, by comparison, a long, costly, laborious process. Although computers are now used in fish and game work, the surface has only been scratched. The papers to be presented are intended to be a partial description of such use, leading to a better understanding of computers for all of us.

To quote a recent publication, a computer might be after your job! You can't beat it so you had better join it.

Are you an engineer? A computer will out-perform your trusty slide rule every time.

Are you a manager? Your competitor, with the aid of a computer, will be able to out-predict, out-design, and out-price you.

Are you anybody? Computers are involved in a lot of your everyday life, from your checking account to filling of your grocery needs by super-food chains.

Are you a fish or wildlife manager? Computers will handle the facts concerning your particular environment better than all of the tables and calculators now at your command.

Are you a hatchery foreman? A computer will, one of these days, be telling you when and where to raise and stock fish.

And this is only the beginning. It has been predicted that within 10 years, 75% of all occupations will be affected by computers.

What can computers do? They do dogwork. They do routine, repetitive things that people do, but they do them faster and at less cost. And they leave people free to do other, more important things.

What are computers doing now-a-days? They're keeping records, writing reports, making design calculations, building star-bound missiles, controlling shop processes, facilitating communication between people and machines, helping management make decisions, translating languages, proving theorems, playing chess and checkers, doing things practical, foolish, and fanciful, big, and little.

You'll be presented with some of these things during the meeting, especially as they may be related to the business of fish and game.

THE AGENDA IS AS FOLLOWS

FRIDAY, DECEMBER 4TH

10:00 - 12:00 AM Early registration

1:30 PM Welcome by Dr. Bruce Wilkins
President of the NYS Chapter
of the Wildlife Society.

3:25 PM Massachusetts Trout Allocation
 Program
Colton H. Bridges, Superintendent,
 Bureau of Wildlife Research and
 Management, Division of Fisheries
 and Game, Westboro, Massachusetts

SATURDAY, DECEMBER 5TH

9:00 AM - 1:00 PM Technical session involving nine
 computer demonstrations. The
 audience will be divided into 9
 groups which will separately
 participate in each demonstration

Moderator: Howard A. Loeb
 Chairman of Program Committee
 NYS Chapter of the American
 Fisheries Society

BREAKDOWN OF TECHNICAL SESSION

9:00 - 10:30 AM 4 demonstration periods of 20
 minutes each, at 9:10, 9:30,
 9:50 and 10:10

10:30 - 10:55 AM Coffee break

10:55 - 12:55 PM 5 demonstration periods of 20
 minutes each, at 10:55, 11:15,
 11:35, 11:55, and 12:15

12:55 PM Closing remarks by
Dr. Paul Neth, President of the
 NYS Chapter of the American
 Fisheries Society

COMPUTER DEMONSTRATIONS WILL BE

1. Calculation of Changes in Carrying Capacity Based on Animal Requirements and Range Supply

Aaron N. Moen, Asst Professor of
Wildlife Science,
Cornell University

Demonstration will be on a
desk-top "Wang 700"

2. Simulated Bear Population Dynamics

Gene McCaffrey, Biologist,
Delmar Laboratory, NYS Department
of Environmental Conservation

Demonstration will be on a desk-
top "Wang 380"

3. Estimating Survival Rates from a Sequence of "Annual" Releases and Recapture of Marked Fish

William D. Youngs, Department of
Conservation, Cornell University

Demonstration will be on a terminal
at the Inn via a tie-line to an IBM
computer at Cornell

4. The New York State Land Use and Natural Resources Inventory

Ronald L. Shelton, Center for
Aerial Phtographic Studies,
Cornell University

Demonstration will be on a terminal
at the Inn via a tie-line to an IBM
computer at Cornell

5. Dynamic Modeling of Ecological Systems.

Geoffrey W. Crowley, Electronic Associates, Inc., Dedham, Massachusetts

Demonstration will be given on desk-top analog and hybrid computers.

6. Audience Participation Demonstration

IBM Educator, IBM Application Systems Center, Syracuse, N.Y.

Demonstration will be on a terminal via a tie-line to a computer in Syracuse.

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8. Computer Programs for Wildlife Biologists Written in FOCAL Language

Robert J. Brick, Applications Engineer, Digital Equipment Corp., Rochester, NY

Demonstration will be on a PDP-12 laboratory computer.

9. Distance & Direction Calculation for Trap and Retrap Data

Robert Miller, Biologist, Delmar Laboratory, NYS Department of Environmental Conservation, Albany, NY

Demonstration will be on a desk-top "Wang 380"

Please plan NOW to attend. We are looking forward to seeing all of you in December. This includes administrative and hatchery personnel, researchers and managers, members and non-members, university people, technicians, and so on. Regardless of who you are, come one, come all.

Any inquiries should be forwarded to either of the following Program Committee Chairmen:

James E. Forbes
P. O. Box 150
11 North Pearl Street
Albany, New York 12201
Phone: (518) 472-6492

Howard A. Loeb
NYS Department of
Environmental Conservation
Livingston Manor, New York 12758
Phone: (914) 439-4228

EQUIPMENT SUPPLIERS FOR THE DEMONSTRATIONS

IBM Applications Systems Center
Syracuse, NY

Electronic Associates, Inc
Dedham, Massachusetts

Robert J. Brick
Digital Equipment Corporation
130 Allens Creek Road
Rochester, NY 14618

Louis Y. Roche
Wang Laboratories, Inc.
Suite 206
Latham Shopping Center
Latham, NY 12110

Michael J. Mahoney
Computer Applications, Inc
74 State Street
Albany, NY 12201

SOME NOTES ON THE HISTORY OF THE NEW YORK CHAPTER
 AMERICAN FISHERY SOCIETY
 (Formerly Professional Fisheries Association of New York)

Prepared by: William A. Flick
 Cornell University

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NEW YORK CHAPTER
American Fisheries Society

1970 Membership List

109 members

- 1971 only
72 members
as of 6/24/71
74 as of 8/23/71
- Do we have
one of these
for 1971?
ALSO
PAID
1971
DUES
- Griff
- Bauer, Robert, 71 Southwood Drive, West Seneca, N.Y. 14224
Benoit, Paul J., R.D. 3, Ballston Spa, N.Y. 12020
Bentley, William G., R.D. 1, Slingerlands, N.Y. 12159
Blake, Leigh M., P.O. Box 84, Watertown, N.Y. 13601 (A)
Bonavist, Anthony J., Box 555A, R.D. 2, New Paltz, N.Y. 12561 (A)
- Brewer, Robert, Friends Lake, Chestertown, N.Y. 12817 ✓
Briggs, Philip T., NYS Cons. Dept., Setauket, N.Y. 11733 (A)
Buffington, Burrell, Box 84, Watertown, N.Y. 13601 ✓
Burdick, George E., NYS Cons. Dept., Albany, N.Y. 12226 (A)
Carlson, Clarence A., 120 Fernow Hall, Cornell Univ., Ithaca, N.Y. 14850 (A)
- Colvin, Gordon, 865-135A Broadway, Holbrook, N.Y. 11741
Cooper, Alexander L., 1011 Garson Avenue, Rochester, N.Y. 14609 (A) ✓
Cornelius, Floyd C., Box 194, Gabriels, N.Y. 12939
Coutu, D. James, 322 Ten Eyck St., Watertown, N.Y. 13601
Creech, Clifford, R.D. 1, Cincinnatus, N.Y. 13040
- Danskin, George A., R.D. 2, 555A Albany Post Rd., New Paltz, N.Y. 12561 (A) ✓
Dean, Howard J., State Fish Hatchery, Rome, N.Y. 13486 (A) ✓
Dietsch, Eli L., NYS Cons. Dept., Albany, N.Y. 12226 (A)
Dochtermann, Glenn A., Rt. 82, Box 255, Hopewell Jct., N.Y. 12533
Doig, Herbert E., 24 Ann Drive, Schenectady, N.Y. 12303
- Doleski, Steven J., 201 N. 11th St., Olean, N.Y. 14760 ✓
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Ehlinger, Neil F., State Fish Hatchery, Rome, N.Y. 13440 (A) ✓
Eipper, Alfred W., Fernow Hall, Cornell Univ., Ithaca, N.Y. 14850 (A)
Elliot, Arthur J., Box 45, R.D. 2, Lake George, N.Y. 12845 ✓
- Elliot, Wayne P., 6 Academy St., Stamford, N.Y. 12167 (A) ✓
Engstrom-Heg, Robert, Delhi Stage, Oneonta, N.Y. 13820 (A) ✓
Eschbach, Herbert, Leedsville Rd., Amenia, N.Y. 12501 ✓
Eveleigh, Robert J., Box 203, Cape Vincent, N.Y. 13618
Fieldhouse, Russell D., 4 Lake St., Stamford, N.Y. 12167 (A) ✓
- Finkelstein, Samuel L., NYS Cons. Dept., 4175 Veterans Mem. Hwy., Ronkonkoma, N.Y.
Flick, William, Paul Smiths, N.Y. 12970 (A) 11779 (2)
Forney, John L., R.D. 1, Bridgeport, N.Y. 13030 (A) ✓
Gould, John D., NYS Cons. Dept., Stamford, N.Y. 12167 (A) ✓
Green, David M. Jr., Fernow Hall, Cornell Univ., Ithaca, N.Y. 14850 (A) ✓
- Greene, Robert A., 179 N. Putt Corners Rd., New Paltz, N.Y. 12561 (A) ✓
Griffin, Bradley L., 487 Ringwood Rd., R.D. 2, Freeville, N.Y. 13068 (A)
Griffin, Paul J., Cedar Ave., Scottsville, N.Y. 14546 (A)
Griffiths, Robert H., Rte. 2, Voorheesville, N.Y. 12186 (A) ✓
Grim, John, Northeastern Biologists, Inc., P.O. Box 162, Rhinebeck, N.Y. 12572 (A)



Hall, Albert G., 15 So. Delaware St., Stamford, N.Y. 12167 (A)
Haje, Roy L., 216-18 106 Ave., Queens Village, N.Y. 11429
Harding, Robert J., Box 1169 Fisher Ave., Cortland, N.Y. 13045 (A)
Holmes, Edward D., Box 57, Avon, N.Y. 14414 (A)
Hutton, Robert F., 1040 Washington Bldg., Washington, D.C. 20005 (A)

Jackson, Bonnie, 3-C Allen Drive, Saratoga Springs, N.Y. 12866 (A)
Jolliff, Thomas, NYS Cons. Dept., Cape Vincent, N.Y. 13618 (A)
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Keller, Walter T., 3 Olive St., Saranac Lake, N.Y. 12983 (A)
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King, Ralph D., Box 57, Avon, N.Y. 14414
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Lantiegne, E., NYS Cons. Dept., Hudson St., Warrensburg, N.Y. 12885
LeTendre, Gerard, Box 204, Cape Vincent, N.Y. 13618 (A)

Lindsey, James J., 409 Exchange Bank Bldg., Olean, N.Y. 14760 (A)
Loeb, Howard A., NYS Fish Research Lab., Livingston Manor, N.Y. 12758 (A)
Longacre, Donald, State Fish Hatchery, Caledonia, N.Y. 14546
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MESSAGE FROM THE PRESIDENT - 1970

Another year has passed! In less than three weeks from now, on December 4-5, the annual meeting of the New York Chapter of the American Fisheries Society will take place at the Gotham Inn in Syracuse. To highlight this year's meeting your Program Committee under the Chairmanship of Howard Loeb, has worked hard and imaginatively to develop a stimulating program around the subject of computers. Entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry", the program offers our members another opportunity to broaden their professional outlook as well as to participate in a demonstration of the practical application of computers to our field. It is also the time of the year that our members can renew old acquaintances, discuss the internal workings of the Chapter, its programs and their future direction and lay plans to keep the organization viable and effective in its drive to achieve its goals.

Other committees have worked diligently and the business session is expected to be informative as well as lively. Items to be discussed will include our participation in the upcoming Natural Resources Conference, licensing of fishery biologists in New York, status of the Careers in Aquatic Sciences film, the proposed awards systems and any items which you have been considering for the past year. A major decision will have to be made involving Section 2 of our proposed bylaws (Membership and Dues) as it relates to the "Affiliate" member category. The AFS Executive Committee did not approve this section as the constitution and bylaws of the parent society do not provide for this membership category.

Make your reservations now and come to have a good time. Many thanks for your help throughout the year and I'll see you at Syracuse.

Paul Neth

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MEMORANDUM

To: 1970 Newsletter Reporters

From: Richard H. Schaefer, Secretary-Treasurer
Northeast Division-American Fisheries Society

Subject: Deadline Date

Date: September 23, 1970

Please be reminded that September 30 is the scheduled deadline date for reporting the news for the Northeast Newsletter. I would appreciate it if you would forward your news items to me as near to that date as possible.

RHS:rpc

*Submitted w/ Bonnie
Jackson as Reporter*



American Fisheries Society

Northeastern Division

c/o N.Y.S. Conservation Department
P.O. Box 1005, Setauket, N.Y. 11733

Connecticut	New York
Delaware	Nova Scotia
District of Columbia	Ontario
Maine	Pennsylvania
Massachusetts	Prince Edward Island
New Brunswick	Quebec
Newfoundland	Rhode Island
New Hampshire	Vermont
New Jersey	West Virginia

M E M O R A N D U M

March 20, 1970

To: Reporters of State and Area Chapters
 From: Dick Schaefer, Secretary-Treasurer
 Subject: 1970 Newsletter

I would appreciate it very much if you would serve as your chapter reporter for 1970. If for some reason this is not possible, would you kindly assume the responsibility of assigning someone to take your place. The deadline for reporting chapter activities will be September 30.

Please acknowledge your acceptance or decline of this assignment as soon as possible.

*Accepted
6/24/70*

Dick Schaefer
 Secretary - Treasurer

RHS:rpc



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Ken

Second Meeting to Organize a New York
Natural Resources Conference

Date: April 21, 1970
Place: Planning Library, Conservation Department, Albany
Attended by: J. J. Karnig, C. E. Boone, W. W. Clingan,
Stan Anderson, Paul Neth, John Gould, Herb Doig

The meeting convened at 1:30 P.M. following lunch with S.A.F., A.F.S., S.C.S.A. and T.W.S. represented. The summary of the first meeting was read.

Each organization representative indicated support for the idea of having a Natural Resources Conference in 1971 along the lines set forth at the organizational meeting.

The following recommendations were agreed upon:

- Date: Conference to commence after lunch on Wednesday and conclude with lunch on Friday during the last two weeks in February 1971.
- Place: The Monticello area is recommended. Some concern was expressed over cost of facilities at the well known resorts but it was agreed to follow through with attempts to secure facilities at Grossingers or a similar establishment. Commitments on dates and facilities should be made in the near future.
- Theme: The following theme was agreed upon: "Politics and the Environment - Who Should Make the Decisions?"

General ideas included; coverage of federal, state, county and local points of view; consider Massachusetts local Conservation Commissions; consider Nelson, Muskie or Dingle for the federal viewpoint and Governor Rockefeller or Commissioner Diamond for the State.

Recommended Agenda:

Wednesday

2:00 P.M. - 4:30 P.M. - Business Meeting of each organization
Dinner - Keynote speaker

Thursday

9:00 A.M. - 12:00 Noon - General Session

Thursday, cont.

1:30 P.M. - 3:00 P.M. - General Session

6:00 P.M. - Social hour followed by dinner

Friday

9:00 A.M. - 12:00 Noon - Informal discussion groups

12:00 Noon - Lunch and Close

Committee Assignments:

Steering Committee

Herb Doig - Chairman
Stan Anderson
Bob Griffiths
Charles Boone

Program Committee

John Gould - Chairman
Bob Van Wie
Ron Bernhard
Don Behrend

Arrangements Committee

W. W. Clingan - Chairman
Bob Greene
John Proud

Committee appointments still pending from S.C.S.A. for Program and Arrangements Committees.

Members of all committees will meet on May 19, 1970 to discuss strategy for conference organization. They will gather in Room 617, 50 Wolf Road, Albany at 12:00 Noon. The meeting will adjourn at about 3:30 P.M.



Ken Wich

NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

October 30, 1970

Dr. Robert F. Hutten
Executive Secretary
American Fisheries Society
Suite 1040, Washington Building
15th and New York Avenue, N.W.
Washington, D. C. 20005

Dear Bob:

I want to thank you for your informative letter of September 25 relating to our membership problem. While our Executive and Bylaws Committee members have been given copies for their review, we would like to take advantage of your offer to meet with us prior to our annual meeting to discuss the subject further in the hope of working out a solution to the problem.

Our meeting this year is going to be held at the Gotham Motor Inn, Syracuse, New York from 10 A.M., Friday, December 4 to 1 P.M., Saturday, December 5. If it is convenient for you, we could plan to arrive late in the afternoon of December 3, have dinner together and discuss the bylaws later in the evening.

If you let me know what your schedule will be, we will make reservations for you at the Gotham Inn.

I am enclosing a program prospectus. As soon as a formal program is printed we'll send you a copy.

We appreciate your kind words relative to the Centennial but don't underestimate the major role that you played in its success. I hope you took at least a brief vacation after it was over.

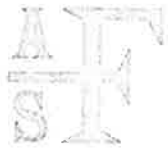
Sincerely yours,

PCN/ja
Enc.

Paul C. Nath
President, New York Chapter
American Fisheries Society

SEP 23 1970

BUREAU OF FISH
RESEARCH



American Fisheries Society

ORGANIZED 1870 | INCORPORATED 1910

ADDRESS OF THE SECRETARY SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

ROBERT F. HUTTON
EXECUTIVE SECRETARY

September 25, 1970

PHONE: (202) 347-9717

OFFICERS

- ROBERT M. JENKINS**, President
Nat'l Reservoir Research Prog., BSF&W
113 South East Street
Fayetteville, Arkansas 72701
- EDWIN L. COOPER**, President-Elect
315 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802
- C. J. CAMPBELL**, 1st Vice-President
Chief, Fishery Division
State Game Commission, P.O. Box 3503
Portland, Oregon 97208
- RAYMOND E. JOHNSON**, 2nd Vice-President
Assistant Director-Research
Bureau of Sport Fisheries and Wildlife
Washington, D. C. 20240

Division Presidents

- NC—C. W. Threinen, Wisconsin
- NE—Frank Grice, Massachusetts
- S—J. Harry Barkley, Mississippi
- W—Paul Cuplin, Idaho

Editor

Gerald E. Gunning, Louisiana

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
c/o New York State Department of
Environmental Conservation
50 Wolf Road, Colonie
Albany, New York 12201

Dear Paul:

After returning from our centennial meeting last week, I have reviewed the Bylaws of the New York Chapter of the American Fisheries Society, adopted by your members on December 4, 1969, at your annual meeting in Syracuse, New York. The only part of the New York Chapter Bylaws not approved by the AFS Executive Committee was Section 2 - Membership and Dues. Article VI of the parent society constitution states in part that ". . . each such regional division (or chapter) may adopt and amend from time to time its own Bylaws, which shall conform to the provisions of this Constitution and Bylaws of the Society adopted pursuant to Article V." As you know, the parent society constitution and bylaws does not provide for the "affiliate member" category as shown in your bylaws. Also, the parent society modified its purposes a few years ago when it applied for exemption from Federal income tax as an organization described in section 501(c)(3) of the Internal Revenue Code. While the New York Chapter is in the process of having its bylaws adopted, I recommend that part 2 of Section 1 of its proposed bylaws be modified to conform to the parent society purposes (see page 448, Vol. 99, No. 2, TAFS). This, in my opinion, will help eliminate confusion and difficulty if the chapter should decide to apply for tax-exempt status.

Regarding Section 2 of the proposed New York Chapter Bylaws, I have modified it so that the parent society executive committee should not have any objections (see attachment). Please note that a provision for "affiliate member" is not included. The parent society executive committee does encourage participation by non-members at chapter, regional and national meetings. Furthermore, the executive committee feels that we should make membership in the Society as attractive as possible to all those interested in the field of fisheries. But it also feels that a non-paying "affiliate membership" category would weaken the Society, not strengthen it. Perhaps what we need to do is to provide additional benefits and services to those interested individuals not now members. I would welcome an opportunity to discuss



this matter in detail with you and your executive committee prior to the business session of the New York Chapter at its next annual meeting. I do plan to attend, and I will come a day early, if necessary, so that we can get together and try to work out a solution to this problem.

It was nice to see you at the recent centennial meeting. The New York people, including yourself, did an outstanding job in hosting the meeting. Dave Wallace, in particular, did a tremendous job.

Best regards.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Bob", written in black ink.

Robert F. Hutton
Executive Secretary

RFH:eg

Attachment

Section 2 of the Proposed
BYLAWS OF THE NEW YORK CHAPTER
of the
AMERICAN FISHERIES SOCIETY
(As modified by R. F. Hutton, Sept. 25, 1970)

Section 2 - Membership and Registration Fee

1. Membership - The membership of the Chapter shall be composed of those American Fisheries Society members in good standing residing in the State of New York.

2. Registration Fee - The Executive Committee of the Chapter may assess each Society member, and others, attending a regular meeting of the Chapter a registration fee. Collection shall be made by the Chapter secretary-treasurer and disbursement shall be made for financing Chapter operations according to the actions taken by the membership in annual meetings or by the authorization of the Chapter Executive Committee.



COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA FISH COMMISSION

CONSERVATION DEPARTMENT
RECEIVED

Division of Fisheries
Benner Spring Fish Research Station
R. D. #1, Box 200-C
Bellefonte Pennsylvania 16823

SEP 28 1970

September 24, 1970

BUREAU OF FISH
RESEARCH

Mr. Paul Neth
50 Wolf Road
N.Y. Dept. of Environmental Conservation
Albany, New York

Dear Paul:

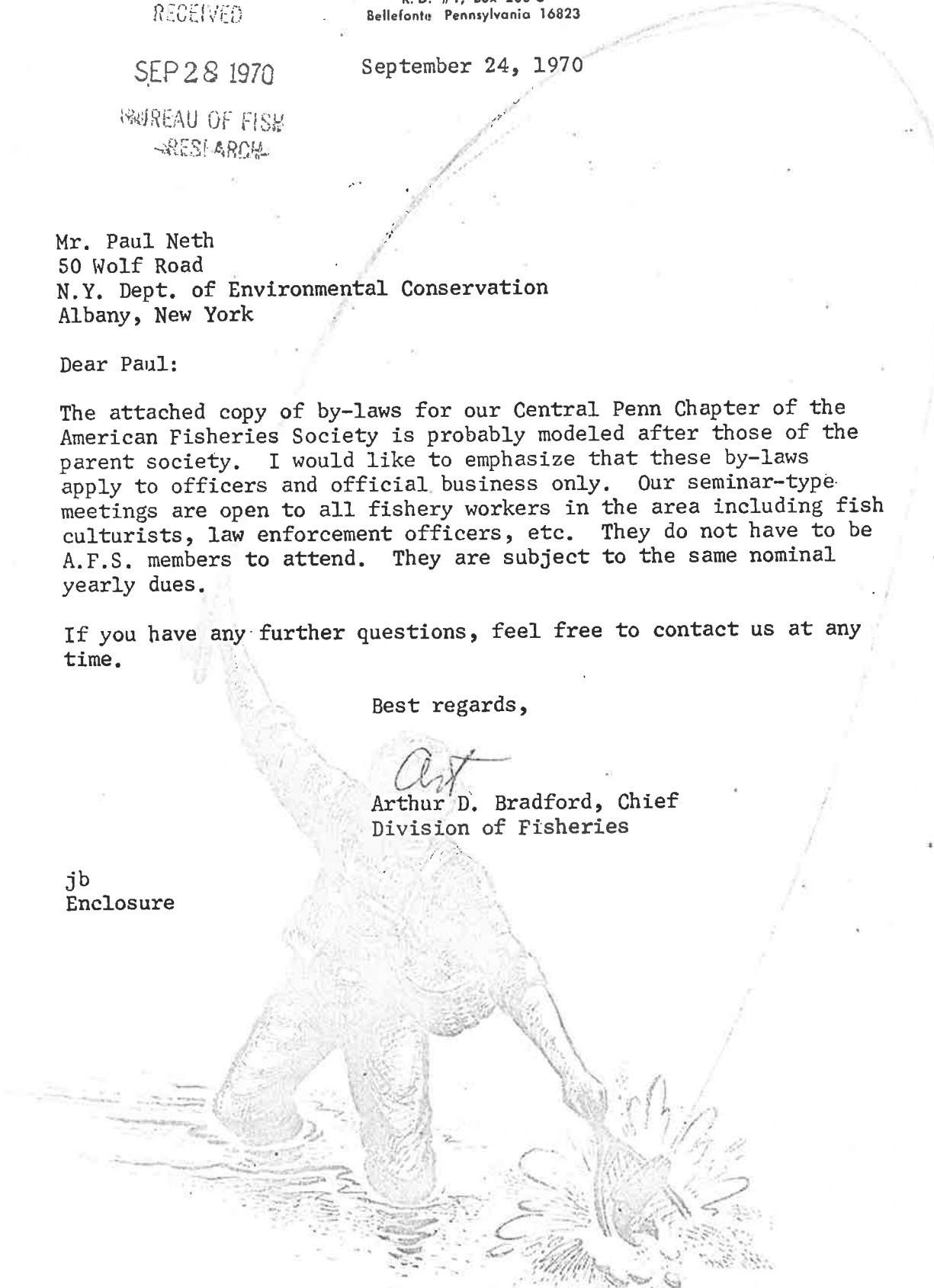
The attached copy of by-laws for our Central Penn Chapter of the American Fisheries Society is probably modeled after those of the parent society. I would like to emphasize that these by-laws apply to officers and official business only. Our seminar-type meetings are open to all fishery workers in the area including fish culturists, law enforcement officers, etc. They do not have to be A.F.S. members to attend. They are subject to the same nominal yearly dues.

If you have any further questions, feel free to contact us at any time.

Best regards,

Art
Arthur D. Bradford, Chief
Division of Fisheries

jb
Enclosure



Proposed By-Laws for the Central Penn Chapter
of the American Fisheries Society

Section 1 - Name and Objectives

The name of this organization shall be the Central Penn Chapter of the American Fisheries Society, and herein after referred to as the Chapter.

The objectives of the Chapter shall be those of the American Fisheries Society as set forth in Article I of the constitution, and to encourage the exchange of information by members of the Society residing within the Central Pennsylvania.

Section 2 - Membership

The membership of the Chapter shall be composed of those American Fisheries Society members in good standing residing in the Central Pennsylvania.

Section 3 - Officers

1. The officers shall include a President, Vice-President, Secretary-Treasurer, and two (2) Executive Committee Members Elect.

2. The officers shall comprise the five (5) man executive committee.

3. Duties and Responsibilities

a. President

1). The President shall preside over and be responsible for the conduct of all meetings of the Chapter.

2). The President shall preside over and be responsible for the conduct of all executive committee meetings.

3). The President shall be the official voice of the Chapter.

b. Vice-President

1). The Vice-President shall assume the responsibilities of the President in the absence of the President.

2). The Vice-President shall be chairman of the program committee.

c. Secretary-Treasurer

1). The Secretary-Treasurer shall keep a transcript of all executive committee and general business meetings.

2). The Secretary-Treasurer shall be responsible for the correspondence of the Chapter.

3). The Secretary-Treasurer shall be responsible for the treasury of the Chapter.

- a) He shall assess the membership for dues and special fees.
- b) He shall meet the financial obligations of the Chapter by direction of the executive committee.
- 4). The Secretary-Treasurer shall be chairman of the membership committee.
- d. Executive-Committee-Members-Elect
 - 1). The Executive-Committee-Members shall be present at all executive committee meetings, and each shall share an equal vote with each the President, Vice-President, and the Secretary-Treasurer.
 - 2). In the first year of the Executive-Committee-Member's term he shall be chairman of the resolutions committee.
 - 3). In the second year of the Executive-Committee-Member's term he shall be chairman of the nominations and elections committee.
- e. The Executive committee shall be responsible for the administrative operation of the Chapter's affairs.

5. Term of Office

- a. The President shall be elected to serve a term of one (1) year.
- b. The Vice-President shall be elected to serve a term of one (1) year.
- c. The Secretary-Treasurer shall be elected to serve a term of one (1) year.
- d. The Executive-Committee-Members-Elect shall be elected to serve a term of two (2) consecutive years. Their terms shall be staggered so that in the initial elections, one member shall be elected for one (1) year and one member shall be elected for two (2) years. In all future elections only one executive committee member shall be elected. He shall be elected to serve a term of two (2) years.

6. Election of Officers

The officers shall be elected annually by the membership by means of a mail ballot.

Section 4 - Committees

1. Nominations and Elections Committee

- a. The Nominations and Elections Committee shall be comprised of a chairman (A,3,d,3), and two (2) members appointed by the President. One such member shall be a student member.
- b. The committee shall present a slate of nominees to the membership by mail ballot during April of each year. The slate shall consist of at least two (2) members and provision for a write-in for each office.

c. The committee shall set as the elections committee by receiving and counting the ballots and installing the newly elected officers at the May business meeting.

2. Program Committee

a. The program committee shall consist of the chairman (a,3,b,3) and two (2) members appointed by the President.

b. The committee shall be responsible for the formulation and implementation of the speakers, business and social programs for the year.

3. Resolutions Committee

a. The Resolutions Committee shall consist of the chairman (c,3,d,2) and two (2) members appointed by the President.

b. The Resolutions Committee shall seek out the opinions of the Chapter's membership on matters of local, state, national and international affairs concerning the fishery resource. They shall formulate these opinions into resolutions. The presentation of these resolutions shall be at the discretion of the membership.

4. Membership Committee

a. The Membership Committee shall consist of the chairman and two members appointed by the President.

b. The Membership Committee shall be responsible for maintaining the membership of the Society and for recruiting new members to the Society.

5. Other committees shall be appointed by the President as the need arises.

Section 5 - Meetings

One (1) business meeting will be held each May. The time, place, and program of all meetings is the responsibility of the program committee.

Section 6 - Voting and Quorum

Decisions at meetings of the Chapter shall be in accordance with Article III, Paragraph 4, of the Constitution of the American Fisheries Society.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter membership.

Section 7 - Finances

The membership shall be responsible for establishing the level of dues and special fees for operation of the Chapter.

Section 8 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3, of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

Ken Wich

OFFICERS

- C. J. D. BROWN**, President
*Zoology and Entomology Department
Montana State University
Bozeman, Montana 59715*
 - ROBERT M. JENKINS**, President-Elect
*Nat'l. Reservoir Research Prog., BSF&W
113 South East Street
Fayetteville, Arkansas 72701*
 - EDWIN L. COOPER**, 1st Vice-President
*315 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802*
 - C. J. CAMPBELL**, 2nd Vice-President
*Chief, Fishery Division
State Game Commission, P.O. Box 3508
Portland, Oregon 97208*
- Division Presidents**
- W—Charles J. Campbell, Oregon
 - NC—Frank Cross, Kansas
 - NE—Dwight A. Webster, New York
 - S—Hudson M. Nichols, Tennessee
- Editor**
Gerald E. Gunning, Louisiana



American Fisheries Society

ORGANIZED 1870 | INCORPORATED 1910

ADDRESS OF THE SECRETARY SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

ROBERT F. HUTTON
EXECUTIVE SECRETARY

PHONE: (202) 347-9717

April 1, 1970

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
New York Conservation Department
Division of Fish and Game
Albany, New York 12226

Dear Paul:

This is to inform you that the American Fisheries Society Executive Committee did not approve the New York Chapter Bylaws as submitted. The Executive Committee did not feel that it could approve the proposed section "Affiliate Member." It was pointed out that chapter, division, and parent society meetings encourage attendance and participation by non-members. But, non-members cannot vote on business affairs or hold office. It was felt that the approval of "Affiliate Member" could hurt overall membership in the Society.

I have modified your Bylaws in a manner that I believe would be approved by the AFS Executive Committee. Thus, if the New York Chapter approves the modified Bylaws and re-submits them, I believe they will be accepted.

Sincerely yours,

Robert F. Hutton
Executive Secretary

RFH:eg

cc: C. J. D. Brown
F. Grice

CONSERVATION DEPARTMENT
215-11

APR 8 1970

AMERICAN FISHERIES SOCIETY
CENTENNIAL
1870 • NYC • SEPTEMBER 13-16 • 1970

Publications: Quarterly TRANSACTIONS, Newsletter, Special Publications

PROPOSED BY-LAWS OF THE
NEW YORK CHAPTER OF THE AMERICAN FISHERIES SOCIETY

Section 1 - Name and Objectives

1. The name of this organization shall be the New York Chapter of the American Fisheries Society, hereinafter referred to as the Chapter.

2. The objectives and purposes of the Chapter shall be, particularly within the State of New York.

(a) To promote the conservation, development and wise utilization of the fisheries, both recreational and commercial.

(b) To promote and advance the development and application of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanography, and technology.

(c) To gather and disseminate technical and other information on fishes, fishing, fisheries, and all phases of fishery science and practice.

(d) To hold meetings for the presentation, exchange and discussion of information, findings and experiences on all subjects and techniques related to fishes, fishing, fisheries and all phases of fishery science and practice.

(e) To encourage the teaching of all phases of fishery science and the training of fishery workers in accredited universities and colleges.

(f) To establish and maintain highest professional standards and to recognize outstanding work and effort in the profession.

(g) To promote the understanding of the many related

programs in the broad field of natural re

ce managemen

(h) By such other means as may
and encourage these interested in fishes
other phases of fish and prac

appropriate, to un
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Section 2 - Membership and Dues

1. The membership of the Chapter
classes:

ll be of the following

(a) Active Member: Any voting
Fisheries Society in good standing *reside*

mbor of the American
in the State of New York

18/
~~(b) Affiliate Member: Any non
Fisheries Society. Affiliate members sha
rights and privileges of Active members,
on Chapter business affairs and cannot ho
for Affiliate membership shall be submitte
the endorsement of one Active member of th
accepted or rejected by the membership committee.~~

~~mbor of the American
be entitl to all the
cept they cannot vote
office. Nominations
the Secretary with
Chapter and shall be~~

19/
(c) Honorary Member: Persons who, by a unanimous vote of
the members of the Chapter, are recognized by reason of professional
or other attainments. There shall be two classes of honorary mem-
bership: (1) Exofficio and (2) Distinguished Service. Honorary
members shall be entitled to all the rights and privileges of Active
Members, except that Exofficio members cannot vote on Chapter busi-
ness affairs and cannot hold office.

20/
(d) Student member: Any student member of the American
Fisheries Society in good standing *residing in the State of
New York.*
2. Dues - Annual dues for Active ^{and} Student, ~~and Affiliates~~

membership shall be two dollars (\$2.00) payable at the beginning of each calendar year. Dues of new members shall be payable when application for membership is accepted. The membership of anyone whose dues are in arrears by April 1 of a given calendar year shall automatically cease.

Section 3 - Meetings

The Chapter shall hold at least one meeting annually at a time and place designated by the Executive Committee. Notice of the annual meeting of the Chapter shall be mailed to each member at least one month before the date of such meeting.

The business meeting and election of officers shall be held at the time of the annual meeting. The business meeting will be conducted in accordance with Robert's Rules of Orders.

Section 4 - Officers

The officers of the Chapter shall consist of a President, Vice-President, and a Secretary-Treasurer.

Officers shall be elected at the annual meeting. The secretary-Treasurer may hold office for a period of two consecutive years, but the term of the other officers shall be one year. In case of a vacated position, the Executive Committee shall appoint a qualified replacement to fill an unexpired term.

In the event of a cancellation of an annual meeting, the officers and the members of any committees shall continue to serve until the next scheduled meeting.

Section 5 - Duties of Officers

The President of the Chapter shall preside at all meetings.

shall serve as the Chairman of the Executive Committee, shall represent the Chapter to the Northeast Division and to the American Fisheries Society, and shall make such appointments and perform other duties and functions as are authorized and necessary.

The Vice-President shall be Chairman of the membership committee whose duty shall be to promote membership in the Society and Chapter. He shall assume the duties of the President in the event of the President's inability to act.

The Secretary-Treasurer shall keep the official records of the Chapter, collect and be custodian of registration fees and dues collected under Section 2 and 10 of these By-laws, and any funds which may be allotted to the Chapter. The Secretary-Treasurer shall disburse funds as may be authorized and necessary, and shall submit a record of receipts and disbursements at the annual Chapter meeting. He shall perform such duties as may be requested by the Executive Secretary of the American Fisheries Society and of the Secretary-Treasurer of the Northeast Division.

Section 6 - Executive Committee

The Executive Committee of the Chapter shall consist of the President, Vice-President, Secretary-Treasurer, the immediate past president and the Chairman of the Program Committee. The Executive Committee is authorized to act for the Chapter between meetings and to perform appropriate duties and functions.

Section 7 - Chapter Committees

Committees and Chairmen of Committees except as listed in Section 5 and 6 of these By-laws, may be appointed by the President

as may be necessary for the conduct of the Chapter activities. Standing Committees shall include: Auditing, Professional Standards, Nominating, Resolutions, Program and Membership.

The terms of office for members of the Chapter Committees shall end upon the discharge of the duties for which they were appointed, or at the next annual meeting of the Chapter, whichever comes first.

Section 8 - Election of Members

Application for all classes of American Fisheries Society memberships may be received the Secretary-Treasurer of the Chapter and shall be forwarded to the Executive Secretary of the Society.

Section 9 - Voting and Quorum

Decisions at meetings, including election of members, shall be by a majority of those present at any meeting; except that for a motion for amendment of By-laws, a two-thirds majority shall be required; and excepted further, a unanimous vote shall be required for the election of honorary members. A voting member who is unable to be present at the annual meeting may give his proxy in writing to another member.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter voting membership.

Section 10 - Registration

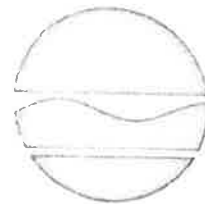
The Executive Committee may assess each registrant attending annual meetings of the Chapter a registration fee necessary to cover the costs of the meeting and Chapter activities; however, all effort shall be made to have the annual membership dues cover such costs.

Collections shall be made by the Secretary-Treasurer and disbursements shall be made for financing the Chapter operations, as may be directed by the membership or by the authorization of the Executive Committee.

Section 11 - Amendments of the By-Laws

The By-laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3 of the Constitution of the American Fisheries Society and by Section 9 of these By-laws.

OCT 13 1970



New York State Department of Environmental Conservation
Div. Marine & Coastal Resources
P. O. Box 1005
Setauket, New York 11733

Henry L. Diamond
Commissioner

October 15, 1970

Mr. Paul Neth
N.Y.S.D. Environmental Conservation
Bureau of Fish
Albany, New York 12201

Dear Paul:

Enclosed are several copies of the preliminary draft resolution pertaining to the Sevin spraying program conducted by the Department. I submit these for the critical scrutiny of the Executive Committee. It would also be helpful if George Burdick would inspect it for its factual content and render a professional opinion. Any and all comments are most cordially invited.

I will expect to hear from you on this matter in the near future.

Best regards,

Richard H. Schaefer
Supervising Aquatic Biologist (Marine)

RHS:rpc
Enc.: 8

NEW YORK STATE CHAPTER OF AMERICAN FISHERIES SOCIETY

Resolutions Committee: Richard Schaefer, Chairman
Edward Holmes
Leigh M. Blake

Resolution No. 1 1970

WHEREAS, our environment is staggering under the affects of gross misuse of pesticides by informed and uninformed users and,

WHEREAS, the New York State Department of Environmental Conservation is regarded as the authority in proper use and protection of the environment and,

WHEREAS, Commissioner Diamond has stated that "anyone who would introduce an alien substance into the environment must first prove that its use will not be harmful and that there is a clear public necessity" and,

WHEREAS, the New York State Department of Environmental Conservation is presently involved in massive spray programs designed to control Gypsy Moth, Saddled Prominent, etc. and

WHEREAS, these programs may not be based on sound biological evidence in that:

1. The gypsy moth existed in the State of Massachusetts for at least one hundred years prior to the development of spray programs and there is no evidence of damage to or change of the forest ecology of that State.
2. There has been no evidence presented which documents permanent damage to the environment due to infestations of most forest insects.
3. Sevin, one of the insecticides used, is known to be especially deadly to Hymenoptera which included many parasitic wasps.
4. Such natural controls may be equally effective if allowed to develop as evidenced by curtailment of the 1970's Saddled Prominent Spray Program in several areas due to the appearance of natural biological controls, and

WHEREAS, evidence does exist which shows that pesticides sprayed from airplanes effects stream aquatic insects even though "soft pesticides" are used and obvious steam courses are avoided (G.E. Burdick, et al New York Fish and Game Journal, 7 (1) 1960 and C. C. Coutant 1964 Science),

NOW, THEREFORE, BE IT RESOLVED that a moratorium be placed in effect on all Department of Environmental Conservation spray programs until each program is throughly evaluated and shown to be necessary based on sound biological evidence.



SPORT FISHING INSTITUTE

719 THIRTEENTH STREET, N.W. (SUITE 503) WASHINGTON, D. C. 20005 (202) 737-0668

August 11, 1970

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Executive Vice President

R. G. MARTIN
Asst. Exec. Vice President

P. A. DOUGLAS
Executive Secretary

Mr. Kenneth Wich, Treasurer
New York Chapter American Fisheries
Society
Box 224
Tivoli, New York 12583

Dear Mr. Wich:

Enclosed is our check for \$500.00 made payable to the New York Chapter, American Fisheries Society for use in producing the film on the fisheries profession as per your proposal submitted May 1, 1970, by Mr. Simpkins.

You will note from the Memorandum of agreement that a progress report is required by October 15, 1970.

Please let us know if we can be of further assistance.

Sincerely yours,

Bob
Robert G. Martin
Asst. Exec. Vice President

RGM:cb

Encls.

cc: Mr. Stephen V. R. Simkins
Chairman, Professional Standards Committee

Paul Smith's College
Paul Smiths, New York 12970
July 21, 1970

Dr. Robert G. Martin
Assistant Executive Vice President
Sport Fishing Institute
719 Thirteenth Street, N.W.
Washington, D.C.

Dear Dr. Martin:

Thank you for your letter of May 26th informing us that we had been awarded a grant for the production of our proposed film on the fisheries profession.

Please send this film grant award of \$500.00 to our chapter treasurer as follows:

Mr. Kenneth Wich, Treasurer
New York Chapter American Fisheries Society
Box 224
Tivoli, New York 12583

Thank you very much for your cooperation.

Sincerely,

Stephen V.R. Simkins
Chairman
Professional Standards Committee

SVRS/db
cc: Ken Wich

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A CONTRACT COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY
ITHACA, NEW YORK

January 2, 1970

Mailing Address:

Fernow Hall, Cornell University
Ithaca, N. Y. 14850

FISHERY BIOLOGY
FORESTRY
NATURAL RESOURCES
WILDLIFE MANAGEMENT

JAN 7 1970

Mr. Richard H. Stroud
Executive Vice President
Sport Fishing Institute
719 Thirteenth Street, N.W.
Washington, D. C. 20005

Dear Dick:

Thanks for the detailed response to my letter of December 12 written on behalf of the Professional Standards Committee of the New York Chapter of the American Fisheries Society. It is gratifying to have your expression of interest and at least tentative commitment to some degree of financial support. We appreciate the problems of budgeting and it may be that our time schedule will have to be adjusted to the availability of cash. In any event, I recall that the tentative dates for completion of the film were targeted somewhere in early 1971.

Chairman Simkins has written to the parent society and I am sure will follow up the other suggestions that you have made. I have not yet heard from the Conservation Council, but feel rather confident that they will be in a position to offer some support. We didn't expect SFI to pick up the entire tab.

I'll respond briefly to some of the other well taken points raised in your letter and then send the material on to Steve Simkins.

We definitely intend to include the marine environment, although this was not specifically mentioned in the prospectus. It would be essential to get as broad coverage of the total aquatic resource field as possible within the time limits.

I think the Committee is in agreement that items 2 and 3 should receive major emphasis in this film. As a matter of fact, the New York Conservation Council had an initial reaction the same as yours: namely, that they were not particularly interested in supporting a recruiting film per se, but were highly interested in anything that had to do with environmental quality. The proposed producer of the film, the Educational Communications Department of Syracuse, is a thoroughly professional outfit and has considerable experience in making both movies and TV shorts. It is quite possible that the TV films would be edited in a different way so as to fit into the program time available.

We have a preliminary listing of the subject matter materials we would like to include as well as possible locations for obtaining the required footage. I am sure that this will be available for perusal and for comment in the next few weeks.

Mr. Richard H. Stroud

January 2, 1970

It is quite possible that Steve Simkins will be attending the Northeast meetings in Wilmington and if so, it would sound as though we should get together and discuss this further.

Sincerely yours,

Dwight A. Webster
Head of Department

DAW:cmw

cc: Steve Simkins
Dr. Paul Neth ✓

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

December 9, 1969

Mailing Address:
Fernow Hall, Cornell University
Ithaca, N. Y. 14850

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

*Similar letter sent to
Fay Welch 12/9/69*

Mr. Richard H. Stroud
Executive Vice President
Sport Fishing Institute
Suite 503, 719 13th Street, N.W.
Washington, D. C. 20005

Dear Dick:

At a recent meeting of the Committee on Professionalism in the New York Chapter of the American Fisheries Society, as an adviser to the Committee, I agreed to contact the Sport Fishing Institute to determine interest in financial support for a film originally designed to recruit high school students in to the profession. A prospectus of the proposed film is enclosed. By incorporating a broad base of subject matter and of activity, we believe the film will also be equally valuable as a teaching instrument in high school science courses as illustrative of problems in environmental quality in aquatic habitats. While the film would emphasize fishery problems and the fisheries profession, other careers in aquatic biology, as well as multiple uses of water will receive treatment.

You will recognize that substantial savings in making the film are realized by not having to pay for professional services.

While it is true that decreases in funding of Federal projects and other austerity measures have created a temporary job scarcity, I feel that this is not an overriding consideration in view of other attributes of the proposed film that will be of immediate use. I hope that you and the Institute will give the project serious consideration for financial support. If you desire further information, please contact Mr. Steven Simkins, Biology Department, Paul Smiths College, Paul Smiths, New York.

We are also contacting the New York State Conservation Council to determine the extent of their interest and support.

Sincerely yours,

Dwight A. Webster
Head of Department

COPY

DAW:cmw
cc: Martin Turner
Herman Forster
Paul Neth ✓

Prospectus for a Film Entitled
Careers in Fisheries and the Aquatic Sciences

The New York Chapter of the American Fisheries Society is concerned with problems of recruiting professionals in to the fields of fishery science and the need for aquatic scientists in general to cope with problems in environmental quality. This organization proposes to sponsor a sound-color film to interest science oriented students at the high school level in a career in aquatic biology ... careers at all levels of endeavor; technicians, researchers, resource managers and educators.

Three primary objectives of the film will be:

- (1) To stimulate interest in aquatic biology as a profession, especially in the fisheries field.
- (2) To provide visual insight on the importance of maintaining environmental quality for aquatic life and for maximum value of aquatic resources for recreation and food.
- (3) To provide a broad understanding of the man-made problems in the aquatic environment with which resource manager must cope.

The film would have sufficiently broad audience interest to be of value in high school science courses and to sportsmens and other lay organizations. It would be twenty minutes in length and, if structured according to present thinking, would depict the activities of aquatic scientists in solving environmental and management problems related to (1) maintaining habitat quality and (2) maintaining stocks of fish. Consideration is also being given to adapting suitable sequences to four minute television shorts.

To keep production costs low, the Society proposes to contract with the Educational Communication Department, State University of New York, College of Forestry, Syracuse, University to produce the film. This agency agreed in preliminary talks, to provide the hardware and personnel to produce the film at no expense, if the

New York Chapter provides funding for production costs (largely film and travel). These costs would be minimal because illustrative sequences would be filmed in New York and neighboring states. But the examples selected and the narrative would illustrate principles and be of general interest and application.

It is estimated that the production costs would be about \$ 5,000. Hopefully this would also include two prints to be made available at no cost to appropriate film distribution centers in New York. Additional prints would be available from the Communications Department at cost.

Financial backing for this project is solicited. We are hoping for a release date early in 1971.

Committee on Professionalism

New York Chapter, American Fisheries Society

Mr. Steve Simkins, Chairman

Professor D. A. Webster, Adviser



STATE OF NEW YORK

CONSERVATION DEPARTMENT

Division of Fish and Game

R. STEWART KILBORNE
Commissioner
W. MASON LAWRENCE
Deputy Commissioner
LEIGHTON A. HOPE
Deputy Commissioner
ROBERT E. YOUNG
Deputy Commissioner
IRWIN H. KING
Secretary

ALBANY, NEW YORK 12226

A. G. Hall
Director
(518) 457-5690

D. H. Wallace
Deputy Director
of Fish and Game
for Marine Region
(516) 585-5400

W. G. Bentley
Assistant Director
for Fish and Game
(518) 457-5690

W. J. Goodman
Assistant Director
for Law Enforcement
and Field Services
(518) 457-5620

April 23, 1970

Mr. Stephen A. Taub
Assistant Leader
Ohio Cooperative Fishery Unit
1735 Neil Avenue
Ohio State University
Columbus, Ohio 43210

Dear Mr. Taub:

In conjunction with Centennial activities of the American Fisheries Society, our New York Chapter would like to sponsor a tour of several of New York's important fishery research facilities for Cooperative Fishery Unit leaders and their assistants. This would not only provide an opportunity for other workers to learn firsthand what we are doing but it would also provide our own people with a rare opportunity to meet some of the foremost fishery scientists in the States.

Dwight Webster and I have prepared the enclosed itinerary and have included some detail on the facilities and the background of studies now underway. We are suggesting arrival at Ithaca, New York (Cornell University) on September 10, with the next two days being devoted to field trips. To broaden the scope of the program it would also be possible to arrange, on a limited participation basis, for trips to more remote facilities such as our Cape Vincent Fisheries Research Station, where studies are in progress on the fisheries of Lake Ontario and the St. Lawrence River or the Adirondack Mountains where our wild brook trout research is being conducted. Sometime during this period the Cooperative Unit personnel might want to hold a meeting of their own. On September 13, invitees would leave for New York City and the AFS meetings.

Mr. Stephen A. Taub
Page 2
April 23, 1970

Before we proceed further with our planning, we must know if this type of a program would be of interest to the Coop people and if so, how many would attend. In this regard and in connection with your activities on the Centennial Celebration Committee, I wonder if you would canvass the Cooperative Fishery Units to determine the extent of interest and expected participation. We believe that we can provide an informative and enjoyable tour for the Cooperative Unit people.

Your comments on the enclosed material would be appreciated and please let me know if you will need additional information to send with the proposed program.

Sincerely yours,

Paul C. Neth, President
New York Chapter
American Fisheries Society

PCN/ja
Enc.

TENTATIVE SCHEDULE FOR
COOPERATIVE FISHERY UNIT REPRESENTATIVES

September 10

- Arrive at Cornell University, Ithaca, New York
- Dinner
- Informal get-together at Cornell Laboratory
- Spent night in Ithaca

September 11

- Review program of N. Y. Cooperative Fishery Unit
- Early lunch
- Cayuga Inlet drop structure and fishway
- Myers Point spawning channel
- Dinner
- Meeting of Cooperative Fishery Unit representatives
- Spend night in Ithaca

September 12

- Cortland Experimental Hatchery
- Leave about 11 A.M. for Shackleton Point
- Lunch at Shackleton Point
- Review of Oneida Lake walleye investigations
- Review of entire New York fish research program
- Dinner - cook-out if weather permits
- Return to Ithaca to spend the night

September 13

- Leave Ithaca and proceed to American Fisheries Society Centennial meeting in New York City.

New York Cooperative Fishery Unit

Research emphasis of the Coop. Unit has been on the investigation of factors influencing first-year mortality of largemouth bass. Laboratory experiments utilize the aquarium room and other facilities at the Cornell Fishery Laboratory at Ithaca in studies of the effects of dissolved oxygen, temperature, and circulation of water on survival of bass embryos. Artificial foods for larval bass are being evaluated. Laboratory facilities also include a radioisotope laboratory and multi-channel gamma spectrometer which are used in experiments to identify and quantify predation on larval largemouth bass.

The Coop. Unit investigations also utilize the nine 0.1 acre ponds located at the Cornell Fishery Laboratory. Field investigations have resulted in the development of a variety of methods of collecting, handling, and marking of fishes, some of which will be available for examination and demonstration. Investigations of behavior of nest-guarding male centrarchids and suspected predators of eggs and larvae will probably still be in progress.

Cayuga Lake Investigations

Cayuga Lake is a large (66 square miles) oligotropic lake, convenient to the Cornell Campus, and having a long history of fishery studies. Current investigations are centered on the population dynamics of lake trout, rainbow trout and lampreys. Two new facilities of the New York State Conservation Department may be of interest to the group. Fish trapping functions have been incorporated into a drop structure and fishway recently constructed on Cayuga Inlet as part of a Corps of Engineers flood protection plan for Ithaca. This stream serves as a major spawning stream for rainbow trout and the only spawning tributary of importance for lamprey eels (endemic in this and one other Finger Lake). The new facility provides an exceptional opportunity to obtain vital statistics on the rainbow trout that reaches maturity in the lake and should make it possible to phase out lampreys as a major source of natural mortality in the fish population. Since the lake trout population is maintained by plantings of marked hatchery reared fish, estimations of changes in the mortality rate by suitable sampling (that extends back to 1949), should be possible.

A second new facility is a pilot artificial spawning and incubation channel located on a second major trout tributary of Cayuga Lake, Salmon Creek at Myers Point. This facility will be used to investigate the possibility of maintaining or augmenting stocks of rainbow trout in

the Finger Lakes and of establishing new stocks in the lower Great Lakes. It consists of six 100 foot parallel channels with multiple possibilities for flow control within the range of 1 to 10 cfs. Both of the above facilities have electronic fish counting capabilities.

Boats will be available for inspection or demonstration of special equipment, such as the sonar used in Mysis, plankton and fish distribution studies in the Lake, as well as more conventional limnological sampling gear. Cayuga Inlet is being intensively worked to improve rainbow trout production and a variety of structures may be seen, including a series of bed-sills to check stream bed degrading and to accumulate gravel suitable for trout spawning. Electrofishing gear will be available to demonstrate the distribution of rainbow trout parr.

The above investigations are conducted by Cornell University's College of Agriculture either in cooperation or under contract with the New York State Conservation Department, or with the Cornell Water Resources and Marine Sciences Center.

Oneida Lake Investigations

Oneida Lake is a shallow eutrophic lake located 75 miles northeast of the Cornell campus. With an area of 80 square miles, it is the largest inland body of water in New York State. The Cornell Biological Field Station at Shackleton's Point provides excellent laboratory facilities and access to the lake. In addition to 3/4 mile of shoreline, a protected harbor, and a northern pike marsh, facilities include an office building, an aquarium room, a limnological laboratory, and numerous buildings for maintenance and storage of equipment.

Research is concentrated on walleyes and yellow perch and present studies are directed at determining the role of first-year survival on subsequent year-class strength and the feeding relationships of the two species. A variety of egg and fry sampling gear has been evaluated for early life history studies. Sampling for fingerlings is conducted by otter trawling and seining. Field studies of adults are accomplished by trapnetting, gillnetting, otter trawling, and electric shocking. All of these gear, various limnological sampling equipment, and several boats will be available for observation.

Research on the fisheries of Oneida Lake have been conducted continuously since 1956 under contract with the New York State Conservation Department.

Eastern Fish Nutrition Investigations

The laboratory of the Eastern Fish Nutrition Investigations is located near Cortland, New York, approximately 20 miles from the Cornell Campus. It is operated as a cooperative venture between the Bureau of Sport Fisheries and Wildlife of the U S. Fish and Wildlife Service; the State of New York Conservation Department, and Cornell University. Founded in 1932, it has devoted its entire program to studies upon trout nutrition and physiology.

A new brick laboratory was occupied in the Fall of 1969, replacing an outmoded wooden structure more than a quarter of a century old. The new facility provides approximately 10,000 square feet of laboratory, office, conference, and library space. The laboratories are designed for biochemical, physiological, biological, and radio-isotope techniques.

The present program is mainly concerned with the determination of the vitamin requirements of trout and the physiological changes caused by vitamin deficiencies; the use of calorie sources by these fish; their fat, protein, and mineral metabolism; the physical factors that alter trout growth and yearly metabolic cycles; the biochemistry of developing trout eggs; and the effects of hormones upon their eggs and the resulting fish.

The laboratories will be open for inspection and personnel will be available to explain the program.



NEIL W. KELLEHER
101ST DISTRICT
RENSSELAER COUNTY

THE ASSEMBLY
STATE OF NEW YORK
ALBANY

April 3, 1970

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
Box 421
Ballston Spa., New York

Dear Dr. Neth:

Thank you for your letter dated
March 17, 1970, concerning proposed
legislation to restrict the use of DDT.

I can assure you I am extremely
concerned about the unlimited use of DDT
and will do whatever possible to bring about
legislation to control the use of this pesticide.

I appreciate your interest in this matter.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Neil W. Kelleher".

NEIL W. KELLEHER

NWK:mc

11



THEODORE D. DAY
49TH DISTRICT
CHAIRMAN
COMMITTEE ON AGRICULTURE
AND MARKETING

THE SENATE
STATE OF NEW YORK
ALBANY

INTERLAKEN, N. Y. 14847

April 7, 1970

Dr. Paul C. Neth, President
New York Chapter
American Fisheries Society
Box 421
Ballston Spa, New York 12020

Dear Dr. Neth:

Thank you for your letter of March 19th and for the resolution adopted by the New York Chapter of American Fisheries Society.

We currently are working on a strong pesticide bill, and there is no desire to defer action on this matter.

TDD:ja

Sincerely,

Ted Day
Theodore D. Day

111



NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

Box 421, Ballston Spa, New York 12020

Dear Mr. [unclear]

Attached is a resolution, drafted and approved by members of the New York Chapter of the American Fisheries Society, encouraging strong legislative action to eliminate the general use of DDT and other chlorinated hydrocarbons by 1971. It also calls for support of research which promises to develop alternative methods of pest control.

As aquatic scientists, we are mightily concerned with the immediate impact of these pesticides on fishes, fish food organisms and the use of fishes as food, as well as the long-term, potentially catastrophic effect on mankind. We recognize that the problems created by pesticides go far beyond the boundaries of our State and that use in distant lands can, through air and water currents, still affect those who, with wisdom, forbade their use. Nonetheless, we believe that action by our legislature to curtail the use of these pesticides, while a small step on a world-wide scale, is a giant step in terms of a forthright attack by our State on a major problem and would regain for us a large measure of leadership in this area.

While immediate and vigorous action is required, we are certain that pressures to defer passage of sound legislation will be substantial. We hope, however, that the mass of evidence describing pesticide damage when coupled with the urgency of the situation, will result in courageous action by our legislators which will ultimately see the use of DDT and other pesticides substantially curtailed.

Sincerely,

Dr. Paul C. Neth
President

Attachment

Whereas, it is abundantly clear that the use of DDT and other chlorinated hydrocarbons has reduced the abundance of important game and food fishes and certain birds through interference with reproductive processes and has caused outright death of fish and wildlife in cases of indiscriminate use; and

Whereas, DDT has been shown to significantly reduce photosynthesis by marine algae in extremely low concentrations, and a major portion of the free atmospheric oxygen needed to support life is generated by photosynthesis by algae; and

Whereas, the long term effects of DDT and other chlorinated hydrocarbons are not understood, but evidence suggests that they may react in deleterious ways with drugs; and

Whereas, these pesticides have a cumulative effect resulting from their persistent nature and are now universally distributed throughout the world, and that continued use of these pesticides may eventually endanger the survival of man;

Be It Herewith Resolved, that the members of the New York State Chapter of the American Fisheries Society, meeting this 4th day of December, 1969, in Syracuse, New York, do strongly recommend that the State of New York enact legislation to eliminate the use of DDT and other chlorinated hydrocarbons by 1971 except under emergency conditions approved by the Departments of Health and Conservation; and

Be It Further Resolved, that the State of New York support research to develop alternate methods of pest control such as biological control, improved farm practices, safer pesticides, and controlled improved methods of pesticide application to insure an improved environment for man, fish and wildlife.

Whereas, it is abundantly clear that the use of DDT and other chlorinated hydrocarbons has reduced the abundance of important game and food fishes and certain birds through interference with reproductive processes and has caused outright death of fish and wildlife in cases of indiscriminate use; and

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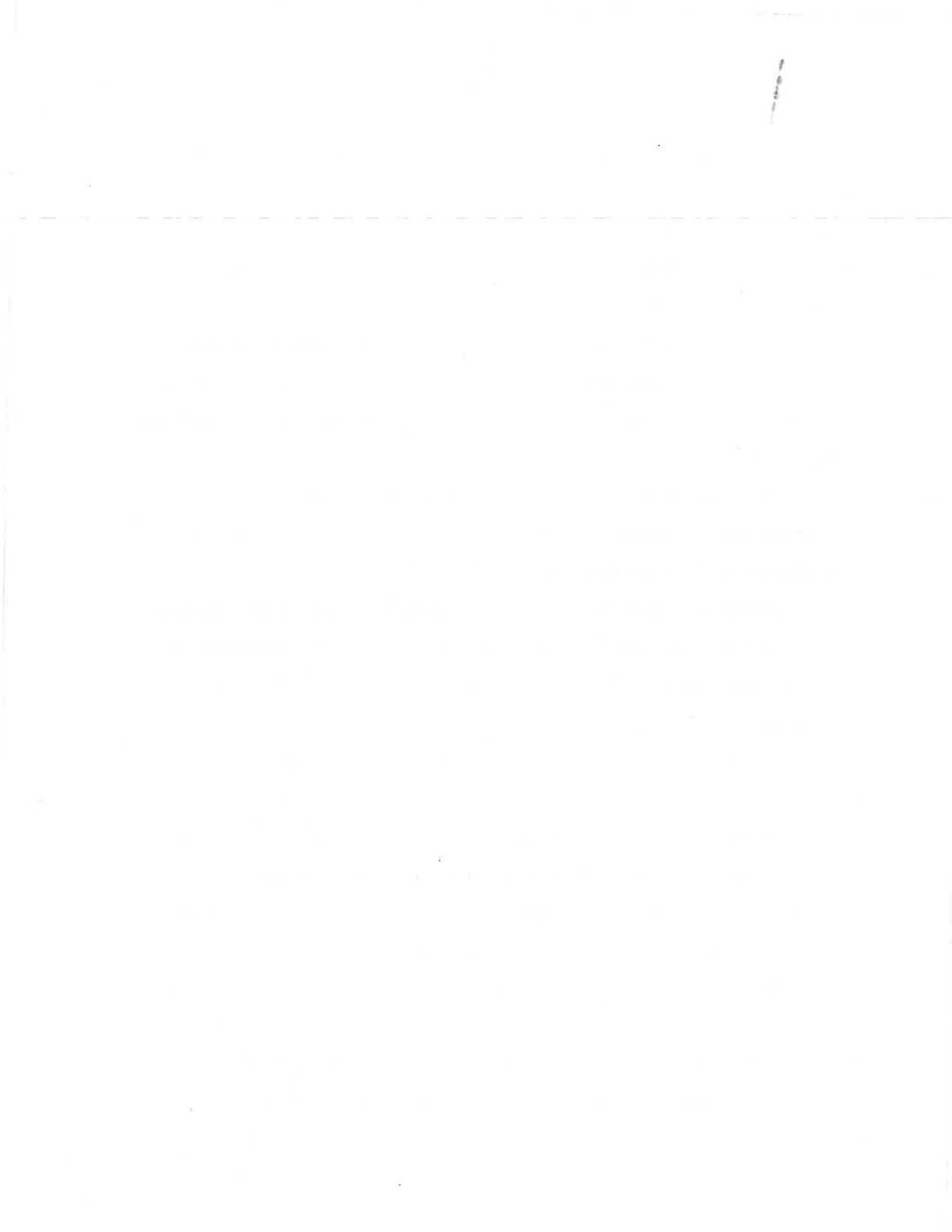
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3



NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

MESSAGE FROM THE PRESIDENT

The majority of the membership of the New York Chapter of the American Fisheries Society has already made plans to attend the annual meeting and conference in Syracuse on December 4 and 5, 1969. Your attendance at the conference is important to the success of our organization, but your duties as members do not cease once you have registered. Your Executive Committee and operating committees have expended much time and effort toward making your organization a valuable affiliate of the Parent Society. The annual business meeting will be your time to share in making the New York Chapter a strong and valuable organization. In the interim, you should be considering programs and business which should be discussed and decided upon at the time of this meeting. Some topics which will be covered are as follows:

By-Laws Committee:
John Gould Chairman

The By-Laws Committee will have distributed a set of proposed By-Laws prior to the meeting. Look these over carefully and be prepared to vote and make necessary changes at the time of the meeting.

Professional Standards
Committee:
Steve Simkins - Chairman

This committee has been investigating ways to make high school students, and others, aware of opportunities in the fishery field. The possibility of having a film made on "Fisheries as a Profession" will be an important topic on the agenda at the meeting.

Resolutions Committee:
Dave Green - Chairman

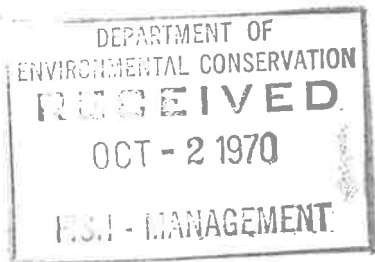
A resolution on banning the use of chlorinated hydrocarbons will be discussed. This problem is of extreme importance, not only with respect to the survival of fish, but also the survival of mankind.

Many other subjects will be covered by your committees and the membership. The role of students in our organization will be of prime importance, as will subjects covering projects for the coming year, a Chapter newsletter, etc. With the many subjects to cover, your attendance at the meeting (with a clear head) is of extreme importance!

On December 5, 1969, the intensive efforts of your Program Committee, under the chairmanship of Al Eipper, will be the highlight of the two day session. The topic "Meeting the Demands on Our Fish and Wildlife Resources" is a timely and important subject. This program is designed for audience participation, and your ideas are important to making the session successful. This is the time for you to bring forth your thoughts, regardless of whether they conform with programs of any Department or Institution.

Many thanks for your help and efforts and I will be looking forward to seeing you in Syracuse.

William T. ...



M E M O R A N D U M

September 28, 1970

To: Ken Wich
From: Dick Schaefer
Re: Membership in the N.E. Div. American Fisheries Society

Will you please send the necessary paper work to Mr. William Ellis Ripley so that he can become a member of the Northeast Division of the American Fisheries Society.

I am enclosing the note I received from Al Jensen on this matter.

Secretary-Treasurer
N.E. Div. American Fisheries Society

RHS:rpc
Enc.: 1

New York Chapter, American Fisheries Society

Executive Committee Meeting, January 15, 1970

A meeting of the Executive Committee was held on January 15 in Saratoga. The meeting was called to order at 3:30 p.m. by President Paul Neth. Also in attendance were Robert Griffiths, William Flick and Kenneth Wich.

Committee assignments for the coming year were discussed. Tentative selections, dependent upon acceptance by the nominees, were:

Membership - R. Griffith, Chairman - H. Dean, W. Shepherd, Lavett Smith, T. Wohnsiedler; B. Jackson. 1970 activities - develop membership brochure; recruit new members - depending on final bylaws.

Publicity - M. Otis, Chairman - P. Maynard; G. LeTendre. Responsible for items in Northeast Section Newsletter; AFS newsletter; publicity before and after annual meeting.

Audit - W. Kellar, Chairman - G. Lane; L. Wedge

Heraldic - M. Pfeiffer and W. MacGregor. Responsible for completion of tie clip design; preliminary design of award for outstanding contribution to fisheries in New York State.

Awards - D. Pasko and A. Eipper. Responsible for developing standards for award for outstanding fisheries work; to work with Heraldic Comm.

Program - H. Loeb, Chairman - R. Van Wie, B. Griffin, H. Doig, G. Danskin, R. Fieldhouse

Resolutions - R. Schaeffer - L. Blake, E. Holmes

Bylaws - E. Dietsch - R. Brewer

Licensing (Ad Hoc) - J. Gould - R. Harding, J. Lindsey

Professional Standards - S. Simkins - D. Webster, E. Stiles, W. Flick

Nominating - J. Forney - W. Miller, U. S. Stone

After a thorough discussion of the role the Chapter might play during the Centennial meeting in September, it was agreed that Paul Neth would make a general offer of assistance by letter to the Centennial Chairman Dave Wallace. This offer would be followed by specifics at a meeting Paul was to attend the following week. If a committee is needed to handle this activity, tentative assignments were W. Flick, Chairman - R. Van Wie and W. Pearce.

Among other miscellaneous items discussed, it was agreed that activities of the Professional Standards Committee in regards to a training film should be reviewed by the Executive Committee before commitments are made.

The meeting adjourned at 9:00 p.m.

Kenneth Wich
Secretary-Treasurer

NEW YORK CHAPTER
OF
AMERICAN FISHERIES SOCIETY

✓ 1970 dues paid

1969
Membership List

FINAL ROSTER

December 4, 1969

- ✓ BENTLEY, William G., R. D. #1, Slingerlands, New York 12159
- ✓ BLAKE, Leigh M., NYS Conservation Dept., Box 84, Theresa Rd., Watertown, N.Y. 13602
- ✓ BONAVIST, Anthony, Box 555A, R. D. #2, New Paltz, New York 12561
- BRAND, Arthur R. III, 100 Hollywood Drive, Oakdale, N. Y. 11769
- ✓ BREWER, Robert C., Friends Lake Road, Chestertown, New York 12817
- ✓ BRIGGS, Philip T., NYS Conservation Dept., D-J Fish Research Unit
4175 Veterans Memorial Highway
Ronkonkoma, L. I., N. Y. 11779
- ✓ BURDICK, George E., 68 Ontario Street, Cohoes, New York 12047
- ✓ CARLSON, Clarence A., 120 Fernow Hall, Cornell Univ., Ithaca, New York 14850
- ✓ CLAFFEY, Dr. Francis J., 31 Holley St., Brockport, N. Y. 14420
- COATES, Christopher W., 587 Third Street, Brooklyn, N. Y. 11215
- ✓ COOPER, Alexander L., 1011 Garson Avenue, Rochester, New York 14609
- ✓ CORL, Glenn T., 11½ Riverside Drive, Saranac Lake, N. Y. 12983
- ✓ COUTU, D. James, 322 TenEyck Street, Watertown, New York 13601
- ✓ CREECH, Clifford, R. D. #1, Cincinnatus, New York 13040
- ✓ DANSKIN, George A., R. D. #2, 555A Albany Post Rd., New Paltz, New York 12561
- ✓ DEAN, Howard J., Herbicide-Pesticide Lab., 8314 Fish Hatchery Road
Rome, New York 13440
- ✓ DIETSCH, Eli L., 23 So. Delaware St., Stamford, New York 12167
- ✓ DOIG, Herbert E., 24 Anne Dr., Schenectady, New York 12303
- ✓ EHLINGER, Neil F., 6747 Williams Road, Rome, New York 13440
- ✓ EIPPER, Alfred W., Fernow Hall, Cornell University, Ithaca, New York 14850

- ✓ ELLIOT, Wayne, 6 Academy St., Stamford, New York 12167
- ✓ ELLIOTT, Arthur, 136 Main St., Warrensburg, New York 12885
- ✓ ENGSTROM-HEG, Bob, Delhi Stage, Oneonta, New York 13820
- ✓ FIELDHOUSE, Russell D., 4 Lake Street, Stamford, New York 12167
- ✓ FINKELSTEIN, Samuel L., NYS Conservation Dept., 18 River St.,
Sayville, New York 11782
- ✓ FLICK, Bill, Paul Smiths, New York 12970
- FONTANA, Charles, State Fish Hatchery, Livingston Manor, N. Y. 12758
- ✓ FORNEY, John L., R. D. #1, Bridgeport, New York 13030
- ✓ GOULD, John D., 9 Beaver Street, Stamford, New York 12167
- ✓ GREEN, David M., Jr., 2912 Elmira Rd., R. D. #2, Newfield, New York 14867
- ✓ GREENE, Robert A., Apt. 1, Arbor Arms Apts., Pleasant Valley, New York 12569
- ✓ GRIFFIN, Bradley L., 487 Ringwood Rd., R. D. #2, Freeville, New York 13068
- ✓ GRIFFIN, Paul J., Cedar Ave., Scottsville, New York 14546
- ✓ GRIFFITHS, Robert H., Rt. #2, Voorheesville, New York 12186
- ✓ GRIM, John, Northeastern Biologists, Inc., P.O. Box 162, Rhinebeck, N. Y. 12572
- ✓ HALL, Albert G., 15 Delaware Street, Stamford, New York 12167
- ✓ HARDING, Robert J., 31 Van Hoesen Street, Cortland, New York 13045
- HEACOX, Cecil E., R.F.D., Tower Hill, Wassaic, N. Y. 12592
- ✓ HOLMES, Edward D., 2901 Rush-Mendon Road, Honeoye Falls, New York 14472
- HYDE, Richard E., Regional Supervisor, NYS Conservation Dept., Box 1169
Cortland, New York 13045
- ~~JOHNSON, Carl R., 102 Flower Ave E., Watertown, New York 13602~~ *Moved out of state*
- ✓ JOLLIFF, Thomas M., 513 Lakeview Drive, Dexter, New York 13634
- ✓ KELLAR, Walter T., 3 Olive St., Saranac Lake, New York 12983
- ✓ KELLY, William H., Box 204, Dubois St., Livingston Manor, New York 12758
- ✓ KRUEL, Donald, Apt. 3, 831 Washington St., Watertown, New York 13602
- ✓ LANE, Gene, NYS Conservation Dept., Hudson St., Warrensburg, N. Y. 12885

*notified
9/11/70
OK-11/20/70*

*Does not pertain
of 12/20/70*

notified 9/11/70

- ✓ LANTIEGNE, E., NYS Conservation Dept., Hudson St., Warrensburg, New York 12885
LAWRENCE, W. Mason, 40 Albin Rd., Delmar, N. Y. 12054
- ✓ LE TENDRE, Gerard Conrad, Box 204, Cape Vincent, New York 13618
- ✓ LINDSEY, James J., 409 Exchange Bank Bldg., Olean, New York 14760
- ✓ LOEB, Howard, Fish Research, Livingston Manor, New York 12758
- ✓ LONGACRE, Donald, State Fish Hatchery, Caledonia, New York 14423
- MACE, Dermot, State Fish Hatchery, Crown Point, N. Y. 12928
- ✓ MAC GREGOR, William H., NYS Conservation Dept., P.O. Box 57, 265 E. Main St.
Avon, New York 14414
- ✓ MAYNARD, Paul R., R. D. #4, Ballston Spa, New York 12020
- MC CARTNEY, Thomas, 31 James St., Dryden, New York 13053
- ✓ MC KEON, Warren H., Box 401, Horseshoe Rd., Millbrook, New York 12545
- ✓ MILLER, William S., 256 April Lane, Bayport, New York 11705
- ✓ MOORADIAN, Stephen R., 409 Exchange Bank Bldg., Olean, New York 14760
- ✓ MOREHOUSE, Burton, Box 591, Bolton Landing, New York 12814
- ✓ NETH, Paul C., 89 Lake Street, Saranac Lake, New York 12983
- ✓ NOBLE, Richard L., R. D. #1, Bridgeport, New York 13030
- NORTON, Raymond G., R. D. #2, Mayville, New York 14757
- ✓ OTIS, Maurice B., 1417 New Scotland Rd., Slingerlands, N. Y. 12159
- ✓ PARKER, Carl E., 51 Delmar Place, Delmar, New York 12054
- ✓ PASKO, Donald G., 7 South Lyons Avenue, Menands, New York 12204
- ✓ PEARCE, William A., Gick Road, R. D. #2, Saratoga, New York 12866
- ✓ PELCHAR, F. Thomas, 60 Harrison Avenue, Glens Falls, New York 12801
- ✓ PETTY, Arch C., Fisher Avenue, P. O. Box 1169, Cortland, New York 13045
- ✓ PFEIFFER, Martin H., NYS Conservation Dept., Ray Brook, New York 12977
- ✓ PLOSILA, Daniel S., 15 Neil Street, Saranac Lake, New York 12983
- ✓ POOLE, John C., NYS Conservation Dept., Bureau of Marine Fisheries
4175 Veterans Memorial Highway
Ronkonkoma, L. I., New York 11779

OK 11/12
notified
9/11/70

was not paid
as of 12/20/70

notified 9/11/70

ROBSON, Douglas S., R.F.D. #2, Freeville, New York 13068

✓ RUSS, Fred A., State Fish Hatchery, Chateaugay, New York 12920

*Does not paid
as of 12/20/70*

→ RYAN, Richard C., 277 Old Country Rd., Riverhead, New York 11901 *Notified 9/1/70*

✓ SCHAEFER, Richard H., 127 Connetquot Road, Oakdale, New York 11769

SEELEY, George R., Jr., R. D. #2, Gloversville, N. Y. 12078

✓ SHEPHERD, William F., Haskell Parkway, R. D. #1, Olean, New York 14760

✓ SMITH, C. Lavett, American Museum of Natural History, Central Park at 79th
New York, N. Y. 10024

*Does not paid
as of 12/20/70*

SMITH, Dale C., R. D. #1, McGraw, New York 13101 *Notified 9/1/70*

✓ SMITH, Edward S., Box 226, Main Street, Chaumont, New York 13622

✓ SNYDER, Robert G., R. D., Stamford, N. Y. 12167

✓ STILES, Earl W., 50 Winthrop Avenue, Albany, New York 12203

✓ STONE, Udell B., 303 Troy Road, Rochester, New York 14618

✓ VAAS, Randy, Carl-Bert Farm, Fabius, New York 13063

✓ VAN VOLKENBURG, Peiter, 4175 Veterans Memorial Highway, Ronkonkoma, N. Y. 11779

✓ VAN WIE, H. Robert, 2104 Dean Street, Niskayuna, New York 12309

✓ VENO, Anthony, 220½ West Forest Street, Olean, New York 14760

WALIKE, George L., R. D. No. 2, Bath, N. Y. 14810

WALKER, Thomas M., NYS Fish Hatchery, Gansevoort, N. Y. 12831

✓ WEBSTER, Dwight A., Fernow Hall, Cornell University, Ithaca, New York 14850

✓ WEDGE, Leslie R., 22½ Spring St., McGraw, New York 13101

✓ WHITE, Bruce Douglas, Lake Colby, RFD #1, Saranac Lake, New York 12983

✓ WHITE, William B., 2 Dorsey Terrace, Saranac Lake, New York 12983

✓ WICH, Kenneth F., Box 224, Tivoli, New York 12583

✓ WIDMER, Carl C., 409 Exchange Bank Bldg., Olean, New York 14760

WILLIAMS, George C., Marine Science Center, Stony Brook, L. I., N. Y. 11790

~~WRIGHT, Thomas D., Dept. of Conservation, Cornell University, Ithaca, N. Y. 14850~~

moved out of state

Dues not paid
as of 12/30/70

YOUMANS, Norman B., Hatchery Road, Constantia, New York 13044 *Notified 9/11/50*

✓ YOUNGS, William D., Yellow Barn Road, R. D. #2, Freeville, New York 13068

✓ ZAWACKI, Chester Steven, 474 Terryville Rd., Port Jefferson Station, N. Y. 11776

Clifford E. Creech
Treasurer

Additional members in 1970
Dues Paid

Bauer, Robert
Benoit, Paul
Buffington, Burnell
Gordon Colven
Glynd Connors
Steven Dakerki
Islen Rachtermann
Tom Eckert
Robert Everleigh
Herbert Eschbach
Roy Hoje

Robert Button
Albert Jerson
Bonnie Jackson
Ralph King
Albert Kellar
Gene Love
Guy Monley
~~Arnold Morehouse (Deceased)~~
Shelly Riter
Paul Riordan
Walter Russ (R.D #2, Mayville, N.Y. 14757)
Dudley Sanford
Faurene Skinner
Steve Simpkins
Joe Spodaryk
John Spagnoli (1969-70)
Jerry Spagnoli

Bennis Thorpe
Carleton Wakefield
Vincent Williams
A.B. Wohnsiedler
Curtis Young



STATE OF NEW YORK
CONSERVATION DEPARTMENT

Division of Fish and Game

R. STEWART KILBORNE
Commissioner
W. MASON LAWRENCE
Deputy Commissioner
LEIGHTON A. HOPE
Deputy Commissioner
ROBERT E. YOUNG
Deputy Commissioner
IRWIN H. KING
Secretary

REGION NO. 3 HEADQUARTERS
PO BOX 1169
CORTLAND, N.Y. 13045
(607) 753-3095

A. G. Hall
Director
(518) 457-5690
D. H. Wallace
Deputy Director
of Fish and Game
for Marine Region
(516) 585-5400
W. G. Bentley
Assistant Director
for Fish and Game
(518) 457-5690
W. J. Goodman
Assistant Director
for Law Enforcement
and Field Services
(518) 457-5680

February 20, 1970

Mr. Ken Wich
Secretary-Treasurer
New York Chapter
Fisheries Society
Albany, N. Y. 12201

Dear Ken:

This looks correct. I can't really tell without referring to the records which are now in your possession. The confusion probably results from some disagreement Clay and I had on how we should split the bills. This appears to be an equitable arrangement. Frankly, I can't remember if I sent Clay copies of the bills or not. If so, there should be a record of it. If the record isn't there I probably did not.

I should have known it was too easy.

Sincerely,

Cliff
C. E. Creech

CEC/mvd



THE NEW YORK CHAPTER - THE WILDLIFE SOCIETY

R. D. #1, Box 232A
Seneca Falls, New York 13148

February 10, 1970

Mr. Kenneth Wich
Box 224
Tivoli, New York 12583

Dear Ken:

Sorry to be so long in replying to your letter, but Governmental demands on my time have been great.

Cliff was going to send me a copy of the motel bill and a copy of the name tag bill, so I would appreciate those. *Sent 3/31/70*

There is still some unfinished business between our two Societies which needs correcting, namely the amount paid for the luncheons by the Wildlife Chapter.

The total motel bill was:	\$165.48	coffee breaks
	<u>635.79</u>	luncheons
	\$801.27	TOTAL BILL

We paid: \$400.63

Now, here is where the correction comes: We sold 54 luncheon tickets
You sold 90 luncheon tickets

Together we paid for 156 luncheon tickets

We paid for	78 luncheon tickets	or \$317.89
You paid for	78 luncheon tickets	or \$317.89

We should have paid for 60 tickets only - our 54 we sold and 1/2 of the 12 guest tickets.

At \$4.08/ticket including tax, our fare share should have been \$244.20. This would mean we have a rebate due from the Fisheries Chapter of \$73.69.

*Check for \$59.38
sent 3/12/70
pw*

Mr. Kenneth Wich
February 10, 1970
Page 2

These figures are not exact in that the \$4.08 figure includes the tax on the coffee break expenses. So, if you will refigure it and deduct the \$14.31, we will be squared away when you send us the balance due.

Sincerely yours,



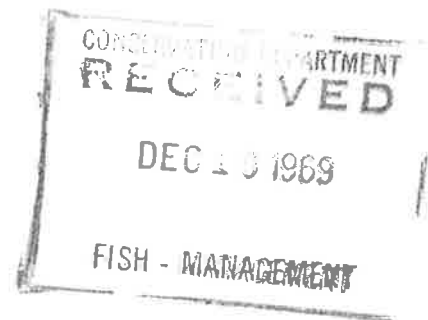
Clayton M. Hardy
Secretary-Treasurer

CMH:jad

cc: Bruce Wilkins

M E M O R A N D U M


December 9, 1969



To: Ken Wich

From: C. E. Creech

In yesterday's letter I failed to mention that we supplied 150 of the plastic name tags to the Wildlife Society and that they have agreed to reimburse us for them. Please refer to the Payne Bros. receipt for the price of the name tags. As I remember, they were \$9.00/100 which would bring the total due us from Wildlife to \$13.50, plus 6 percent tax. Clay Hardy, Secretary-Treasurer of the Wildlife Society expects this notice from us. Thanks.


C. E. Creech

mvd



AF
S F

News
from the
Northeast

**The 1970 Newsletter of the Northeastern Division
of the American Fisheries Society**

Frank Grice, *President*
Robert A. Jones, *President-elect*
Richard H. Schaefer, *Secretary-Treasurer*



8

8

PRESIDENT'S MESSAGE

This year marks the 100th Anniversary of our parent society. It should be obvious to all members of at least a few years' standing that great strides have been made recently to make the society a more effective organ in the field of fisheries science.

Much of the strength and vigor of any national organization comes from its local and regional groupings, and I believe the society is no exception to this rule. From a personal point of view I am especially pleased at the development and success of the three local chapters in the Northeastern Division. Through these chapters, many members who cannot participate in the national or divisional meetings have the opportunity to be deeply involved at the local level. I would urge consideration of other local chapters throughout the Northeast for this reason.

I look forward to a fine meeting of our Division in Portland, Maine on May 23-26, 1971. The Program Committee and the host state agency have worked diligently to insure that every detail is well planned and executed. Each member of the society should recognize and applaud the activities of this and other program committees on all levels since this unpaid service constitutes a real contribution.

Don't forget the upcoming International River Ecology Symposium to be held in Amherst, Massachusetts, in June of 1971 under the sponsorship of the Northeastern Division.

So that's "downeast" in May and the Connecticut Valley in June - see you there!

Frank Grice
President, Northeastern Division
American Fisheries Society

1970 OFFICERS AND COMMITTEES

Executive Committee

Frank Grice, Mass., President
Robert A. Jones, Conn., President-Elect
Richard H. Schaefer, N. Y., Secretary-Treasurer
Dwight A. Webster, N. Y., Immediate Past President
Thomas M. Groutage, Pa., President, Central Penn. Chapter
Allen E. Peterson, Jr., Mass., President, Southern New England
Chapter
Paul C. Neth, N. Y., President, New York Chapter

Committee Members

Nominating Committee

Kenneth F. Wich, Jr., N. Y., Chairman
James M. MacMartin, Vt.
Richard W. Hatch, Me.
Richard L. Hames, Conn.

Program Committee

Kendall Warner, Me., Chairman
Richard E. Cutting, Nfld.
Allen E. Peterson, Mass.
Stanley P. Linscott, Me.
William A. Flick, N. Y.
Richard W. Hatch, Me.

Time and Place Committee

Russell A. Cookingham, Mass., Chairman
Bernard Corson, N. H.
Richard E. Griffith, Mass.

Resolutions Committee

Charles F. Thoits, III, N. H., Chairman
Joseph A. Yovino, Jr., Mass.
Roger P. AuClair, Me.
Walter S. Murawski, N. Y.

Audit Committee

Alfred L. Meister, Me., Chairman
Douglas S. Robson, N. Y.
Irwin M. Alperin, Mass.

Membership Committee
John D. Gould, N. Y., Chairman

Warmwater Workshop Committee
Jon K. Anderson, Vt., Chairman

River Ecology Symposium Committee
Robert A. Jones, Conn., Chairman
Dwight A. Webster, N. Y., Program Coordinator
James A. McCann, Mass., Program Co-Chairman
Clarence A. Carlson, N. Y., Program Co-Chairman
Lyndon H. Bond, Me., Program
Ray T. Oglesby, N. Y., Editor
Lyle M. Thorpe, Conn., Finance
Roger J. Reed, Mass., Arrangements
William E. Daugherty, Mass., Arrangements
Christopher Percy, Mass., Publicity

Divisional Representative to Nominating Committee of Parent Society
Richard W. Hatch, Me.

DIVISION NEWS

MINUTES OF THE 18TH ANNUAL BUSINESS
MEETING, FEBRUARY 11, 1969, AT WHITE
SULPHUR SPRINGS, WEST VIRGINIA

1. The meeting was called to order by President Dave Robinson at 4:50 p.m.
2. The secretary-treasurer reported that a quorum was present.
3. The reading of the minutes of the last annual meeting was dispensed with.
4. President Robinson expressed his thanks to Executive Secretary Robert Hutton, the secretary-treasurer, and the various committee chairmen and members who contributed to the progress of the Division. He offered four suggestions for consideration:
 - a. Continuation of the Newsletter.

- b. Establishment of an Awards Committee to consider and regulate award considerations.
 - c. Involvement of fishery students in the "Wildlife Bowl" and Student Conclave at future Northeast Conferences.
 - d. Establishment of a Past Presidents' Committee to deal with various Division responsibilities.
5. President Robinson introduced several noteworthy guests, including E. A. "Woody" Seaman, President of the AFS; Ed Cooper, Second Vice President; Robert Hutton, Executive Secretary; and past division presidents Ed Kinney, Keen Buss, and Gus Prevost.
 6. Woody Seaman made some brief remarks, including the comment that the local chapters provide the real vitality of the AFS. There are presently 18 local chapters, with three more ready for executive committee approval. He also invited everyone to attend the national meeting in New Orleans this year, and the 1970 centennial meeting in New York City.
 7. Bob Hutton commended the Division officers for their work during the past year, and for the first Newsletter. He also congratulated the people responsible for arranging the conference on a job well done. He suggested that future student conference activities include a Fish and Wildlife Bowl. Publications of the Society during 1969 and '70 were also discussed.
 8. The secretary-treasurer reported total receipts of \$474.81, total disbursements of \$129.52, and a cash balance of \$345.29.
 9. Bill Flick, President of the New York Chapter, reported a membership of about 120. A very successful fish and wildlife conference was held in December with the Wildlife Society. The Chapter is concerned with getting information on fisheries as a profession to high school career consellers, the possibility of licensing fishery biologists in New York, and conducting short courses in fisheries for non-technical personnel.
 10. Leigh Bridges reported that the Southern New England Chapter, composed of members from Mass., R. I., and Conn., held its first meeting in December, with an attendance of about 70. By-laws were adopted and the following officers elected:

Irwin M. Alperin, President
Alan E. Peterson, Vice President
Richard L. Hames, Secretary-Treasurer.

11. In the absence of Peter Zurbuch, Program Chairman, President Robinson expressed his appreciation to the session chairman for a job well done.
12. In the absence of Lyndon Bond, Chairman of the Time and Place Committee, Al Meister reported that the 1970 Northeast Fish and Wildlife Conference will be held January 26, 27, and 28 at the U. of Delaware, Newark. The 1971 Conference will be held in Maine. He also recommended that the president appoint an Ad Hoc Committee to explore, in cooperation with representatives from other organizations participating in the Conference, the problems associated with choosing a time and place, and to report their findings to the Division at the 1970 business meeting.
13. Keen Buss, Chairman of the Auditing Committee, reported that the financial records were in order.
14. Jim McCann, Chairman of the Membership Committee, was unable to attend the meeting, but submitted a written report that Dave Robinson read. A chairman has been selected for each state and province, and they are actively soliciting memberships.
15. Bruce Pyle reported that the third annual Warmwater Management Workshop was held on August 5 and 6 at the Pinchot Institute for Conservation Studies, Milford, Pa. Approximately 50 people attended, and the workshop was deemed very successful.
16. Bruce Pyle, Chairman of the Resolutions Committee, presented seven resolutions which, with minor revisions, were passed unanimously (copies attached). It was recommended that copies of appropriate resolutions be sent to representatives in member Provinces.
17. Bob Jones, Chairman of the Nominating Committee, submitted the slate of Frank Grice for President Elect and Roger Schoumacher for Secretary-Treasurer. There being no nominations from the floor, a unanimous ballot was cast.
18. Dave Robinson yielded the gavel to the new president, Dwight

Webster, whose first order of business was the presentation of a plaque to the outgoing president.

19. A motion was unanimously passed to continue the Newsletter, and to use whatever Division funds were necessary.
20. It was suggested that the Resolutions Committee reflect the international make-up of the Division, with representation from both Canada and the United States.
21. Ed Cooper nominated Bill Flick as Representative to the Executive Committee of the AFS. There was unanimous consent.
22. President Webster announced that committee appointments would be made shortly.
23. Adjournment came at 5:55 p.m.

Respectfully submitted,

Roger Schoumacher
Secretary-Treasurer
Northeastern Division

MINUTES OF THE 19TH ANNUAL BUSINESS MEETING
JANUARY 27, 1970, AT HOTEL du PONT,
WILMINGTON, DELAWARE

1. The meeting was called to order by President Dwight Webster at 4:40 p.m.
2. Acting Secretary-Treasurer, Allen Peterson, Jr., reported that a quorum was present (67 present).
3. President Webster reflected on the progress of the N. E. Fish and Wildlife Conference since its beginning on March 12-13, 1937 at Ithaca, New York -- it has come a long way! Dwight also commented on the Division's River Ecology Symposium and the need for help from the membership. It was pointed out that the response for papers for the N. E. Fish

and Wildlife Conference has not been good for the past few years and there is a real challenge for future program committees to generate interest.

4. A summary of the minutes of the 18th annual meeting, prepared by Secretary-Treasurer Roger Schoumacher, was read by the acting Secretary-Treasurer. The minutes were not voted on, but it was suggested that they be circulated through the Newsletter.
5. President Webster introduced distinguished guests -- Past President of the American Fisheries Society George Eicher, and present First Vice President, Ed Cooper.
6. George Eicher spoke briefly, making a few comments for Executive Secretary Bob Hutton, who had to leave the conference early. The parent society is trying to have a full-time administrative assistant for its Washington office. George urged everyone to consider the mail ballot being circulated by the Ad Hoc Time and Place Policy Committee of the Society.
7. A report by the acting secretary-treasurer was given on the financial statement prepared by secretary treasurer. Total receipts - \$365.67; total disbursements - \$197.00; balance - \$168.67. The report was accepted pending review by the Audit Committee.
8. A letter from the New York Chapter urging "that cost of attendance be carefully considered in organizing the annual meeting ..." was discussed.
9. Paul Neth reported on the activities of the New York Chapter. The annual meeting was held on December 4-5, 1969, at Syracuse, jointly with Wildlife Society. The theme of the conference was "Future Demand on Fish and Wildlife Resources," and over 200 people attended. Officers for 1970 are:

Paul Neth	President
Robert Griffith	Vice President
Ken Wich	Secretary-Treasurer

Paul offered the Chapter's assistance to the Society's Centennial Committee.

10. Allen E. Peterson, Jr., reported on the activities of the Southern New England Chapter. Two meetings were held: an

anadromous fisheries workshop on June 10th and the annual meeting on December 9, 1969, both in Auburn, Mass., and attended by 90-100 people. Officers for 1970 are:

Allen E. Peterson, Jr.	President
Saul Saila	Vice President
Barton Marcy	Secretary-Treasurer

11. Art Bradford reported on the activities of the Central Penn Chapter. Meetings are held once each month and cover a wide variety of subjects with guest speakers. The annual meeting was held in May.
12. President Webster presented Charters to the Central Penn and Southern New England Chapters.
13. The program Committee, under the Chairmanship of Rober Werner, was commended on a job well done.
14. Maurice Otis reported that the 1971 meeting will be held at the Eastland Motor Hotel in Portland, Maine; the 1972 meeting will be in New York (Monticello?); and, in 1973, Vermont. It was also pointed out that the Time and Place Committee is working with the Northeast directors to increase our influence in determining time and place of meetings.
15. Keen Buss, Chairman of the Auditing Committee, declined to report on the financial records as they were not complete at this time. Records were to be forwarded to the committee for check at a later date.* Regarding the cost of the Newsletter, the committee recommended that \$1.00 dues be assessed each member to defray costs. The Secretary-Treasurer was instructed to send out a dues notice to all members of the Northeast Division, if possible, in one of the regular mailings of the Newsletter of the Parent Society.
16. Membership Chairman John Gould now has representatives in each state and province. Their goals will be to pick up delinquent members in this centennial year; more libraries; and push "Problems of Ichthyology." He can use all the help he can get.
17. John Kelley introduced seven resolutions (copies attached for consideration. Numbers 1-5 were passed with little discussion. Number 6 was tabled after discussion about the

merits of delegating authority away from states. Number 7 was tabled and referred back to committee to be reworked. It was suggested that it then be passed on to Chapters for action, or to the membership by mail ballot.

18. Matthew Scott reported on the Warmwater Workshop, which is covered in Newsletter. The next workshop will be in Vermont.
19. Bob Jones gave an outline of the International River Ecology Symposium and progress to date. It will be held in June 1971 at University of Massachusetts. The proceedings are to be published.
20. Richard Hatch gave the report of Nominating Committee. He pointed out that nominees must have attended annual meetings in one of the two years preceding their nomination (By-laws). Also, the committee felt it was more responsive to the membership to offer two nominations for each office.

The following nominees were presented:

President	- Frank Grice
President Elect	- Colton Bridges - Robert Jones
Secretary-Treasurer	- Gerald LeTendre Richard Schaefer

Division Representatives to American Fisheries Society Nominating Committee:

Robert Butler
Richard Hatch

Nominations were closed and election was held by secret ballot. The following officers for 1970 were elected and installed:

President	- Frank Grice
President Elect	- Robert Jones
Secretary-Treasurer	- Richard Schaefer
Division Representative	- Richard Hatch

- 21 William Daugherty moved that an amendment to Section X of the By-laws be made that would allow the Executive Committee to

assess the membership annual dues of \$1.00 to cover increased costs of Division operations, with the provision that student members be exempted from said dues. The motion was passed unanimously.

22. Richard Hatch moved that Sections IV, VIII, and IX be amended to allow election of officers by mail ballot. The motion passed unanimously.
23. Clarence Carlson moved "that this assemblage urge our program committee to make a special effort to establish a student program or session or other student activity at the 1971 N. E. Fish and Wildlife Conference." The motion was passed.
24. Frank Grice moved that Section IV of the by-laws be amended to require that anyone nominated for office must have attended one meeting within the last three years instead of two years as the by-laws now require. This would be in keeping with similar requirements of the parent society. The motion passed unanimously.
25. President Grice presented outgoing President Webster with a plaque from the Division in recognition of his contribution as President to the Northeastern Division.
26. As time was running short, President Grice limited his remarks to urging the participation of all members in Division and Chapter activities. He reappointed John Gould as membership chairman. Other committee appointments will be made soon. Thanks were tendered to retiring Secretary-Treasurer Roger Schoumacher for his service to the Division, especially in getting the Newsletter off to a good start.

* Audit Committee Chairman Robson subsequently approved the Treasurer's report after being provided with complete file of financial transactions for the previous years (communication to Past President Webster, dated January 27, 1970).

TREASURER'S REPORT

Balance received from previous year	\$345.29
Additional registration fees from '69 conference	11.00
Bank interest	11.80
Total receipts	\$368.09
Postage (resolutions, misc.)	\$12.00
Postage (for <u>Newsletter</u>)	102.00
Envelopes and paper (for <u>Newsletter</u>)	83.00
Total disbursements	\$197.00
Balance on hand	\$171.09

Respectfully submitted,

Roger Schoumacher
Secretary-Treasurer
Northeastern Division, AFS

NORTHEASTERN DIVISION OF AMERICAN FISHERIES SOCIETY
19th Annual Business Meeting
Wilmington, Delaware
January 27, 1970

ATTENDANCE

Richard W. Hatch	Maine
Paul Neth	New York
Albert C. Jensen	New York
Richard H. Schaefer	New York
Walter S. Murawski	New Jersey
Anthony Calabrese	Connecticut

John W. Kelley
Charles F. Cole
David Locke
Bill Flick
Kenneth Wich
Robert A. Greene
Maurice B. Otis
Bonnie Jackson
Carle E. Parker
Kendall Warner
John H. Claussen
J. M. Fraser
D. C. Sinclair
David R. Callum
Angelo Incerpi
Matthew Scott
Wally Whitworth
Dennis Ford
Clarence Carlson
Charles Cross
Bob Engstrom-Heg
Richard L. Noble
David M. Green, Jr.
William Daugherty
J. Kerekes
George Eicher
R. J. Harding
John D. Gould
Ray T. Jones
Tom Jolliff
Shyrl Hood
Delano R. Graff
Keen Buss
Richard Beggin
Lyle M. Thorpe
Jim MacMartin
J. P. Cuerrier
Philip T. Briggs
Ronal W. Smith
Kent S. Price
Frank Jernejcic
Louis Hambly
Jay F. Watson
Robert B. Knowlton
Mahlon Kuntz
Peter E. Brezosky

New Jersey
Massachusetts
Maine
New York
New York
New York
New York
New York
New York
Maine
Vermont
Ontario
Ontario
Vermont
Vermont
Maine
Connecticut
New York
New York
Massachusetts
New York
New York
New York
Massachusetts
Nova Scotia
Oregon
New York
New York
Delaware
New York
Pennsylvania
Pennsylvania
Pennsylvania
Vermont
Connecticut
Vermont
Ontario
New York
Delaware
Delaware
West Virginia
Massachusetts
Massachusetts
New Hampshire
Pennsylvania
New Hampshire

Charles F. Thorb	New Hampshire
Richard G. Seamans, Jr.	New Hampshire
Arthur Newell	New Hampshire
Colton H. Bridges	Massachusetts
Frank Grice	Massachusetts
Robert H. Jones	Connecticut
Paul L. Hopper	Massachusetts
Bernard A. Dennison	Massachusetts
Burrell Buffington	New York
Jerry LeTendre	New York
Arthur D. Bradford	Pennsylvania
James M. McKinney	Pennsylvania
Robert G. Werner	New York
Howard Russell	Rhode Island
John M. Cronan	Rhode Island
Howard Loeb	New York
Leonard Halnon	Vermont

RESOLUTIONS

Seven resolutions were acted upon by members of the Northeastern Division, American Fisheries Society, at the 1970 business meeting held in Wilmington, Delaware. Five resolutions were passed and are presented verbatim in the January-April, 1970 AFS Newsletter. Two, which gave consideration to the management of interterritorial migratory fish and provisional clearances for drugs and fish toxicants, were tabled pending review and reworking by the Resolutions Committee. According to the instructions in each resolution which passed, the Secretary-Treasurer forwarded copies and covering letters to appropriate responsible persons or agencies as follows:

<u>Person or Agency</u>	<u>Resolution No.</u>
Richard M. Nixon, President, U.S.A. **	4, 5
Michael Mansfield, United States Senate	1, 5
Hugh Scott, United States Senate*	1, 5
John McCormack, U.S. House of Representatives*	1, 5
Gerald Ford, U.S. House of Representatives*	1, 5
Lucien Lamoureux, Canadian House of Commons*	1, 5
Walter J. Hickel, Secretary, U.S. Dept. Interior**	5
Clifford M. Hardin, Secretary, U.S. Dept. Agriculture**	5

Jack Davies, Canadian Minister of Fisheries	1, 2, 3, 5
Director, U.S. Bureau of Budget**	4
Director, U.S. Bureau of Commercial Fisheries	1, 2, 3
Director, U.S. Bureau of Sport Fisheries and Wildlife**	1, 2, 3
Russell Train, Chairman, President's Advisory Committee on the Environment	4, 5
Fishery agencies of all seventeen Divisional States and Provinces***	1, 2, 3, 4, 5

* Receipt acknowledged

** Receipt acknowledged and reply received.

*** Receipt acknowledged by Ontario Dept. Lands and Forests

Responses from the Executive Office of the President, the U.S. Dept. of Agriculture and the U.S. Dept. of the Interior are reproduced in full below for your information.

Dear Mr. Schaefer:

This is to acknowledge and thank you for your letters of June 18 and 19 to the President and the Director of the Bureau of the Budget regarding two resolutions recently passed by your organization.

Resolution No. 4 supports the objectives of water pollution control, particularly as they relate to the needs of the fishing industry, and requests full funding of the construction grants program for municipal waste treatment facilities during fiscal year 1970. We are pleased to inform you that the full amount appropriated by the Congress, \$800 million, was made available to the States during fiscal year 1970. In addition, the President proposed in his 1971 budget that the Federal Government initiate a four-year \$4 billion program of Federal grants for this purpose. This will assure a continuing effort at a level adequate to overcome the backlog of waste treatment needs.

Resolution No. 5 urges enactment of legislation to eliminate the use of DDT and other persistent hydrocarbons and encourages that public funds be made available to support research to develop alternative means of pest control.

As you probably are aware, this administration has been greatly concerned with pesticides as a major pollutant of the environment and over the past eight months has endeavored to come to grips with the issue of control of pesticides as they affect human health and the total environment. Based on sound scientific judgment, the administration has chosen to restrict the uses of certain pesticides (including DDT and other persistent pesticides) by balancing the costs to society from the use of such pesticides against benefits derived. The banning of particular economic poisons by statute has not been pursued recognizing that there are a few limited instances of great public importance where there are at present, no acceptable alternatives to the use of these compounds.

This administration shares your enthusiasm for research and development in support of programs for alternatives to pesticides for pest control. The Department of Agriculture has responsibility for these programs and will be expending \$45.5 million in fiscal year 1971 in the search for acceptable alternatives to pesticides. In spite of several successful pest control programs utilizing alternative techniques, there is an increasing recognition that pesticides must be the major weapon in the control of pests for the foreseeable future.

On July 9 the President recommended to Congress the creation of the Environmental Protection Agency which will bring together--under one roof--the administration of Federal laws and activities relating to water quality and pesticides. We feel this is a positive and much needed organizational step toward the control of pollutants as they affect our total environment. Copies of the reorganization plan and message and a transcript of the press conference on the new agency are enclosed.

Thank you for your interest in these two programs of great national importance.

Sincerely,

Donald E. Crabill
Director, Natural Resources
Programs Division

Dear Mr. Schaefer:

Secretary Hardin asked me to respond to your comments on the use

of DDT and other pesticides.

The enclosures explain the Department's position of this subject and the actions being taken to reduce the use of these materials.

Thank you for writing to indicate your concern. Environmental problems can be solved only through the cooperation and participation of all Americans.

Sincerely,

Leo G. K. Iverson
Acting Deputy Administrator

U.S. Department of Agriculture
July 1970

ACTIONS TO RESTRICT DDT USES

It is the policy of the U.S. Department of Agriculture to practice and encourage the use of those means of effective pest control which provide the greatest measure of protection to man, his animals, wildlife, and other components of the natural environment. This policy applies to the uses of DDT.

The Federal Insecticide, Fungicide, and Rodenticide Act requires that pesticides be registered with the Department before they can be distributed in interstate commerce. Registration is not granted unless acceptable scientific evidence is provided to prove that the product can be used safely and is effective when applied according to label directions.

Registered uses of pesticides undergo continuous review to maintain compliance with the Act.

Actions taken thus far to restrict uses of DDT are:

*On November 13, 1969, Secretary of Agriculture Clifford M.

Hardin directed that protection of the environment from contamination by persistent pesticides, including DDT, receive greater emphasis in the registration of new pesticide products and the review of those already registered with the Department.

*In November 1969, the Department published a notice that all remaining uses of DDT will be discontinued except those uses which are essential in the protection of human health and welfare and for which there are no effective and safe substitutes. Farmers, scientists, industry, health officials, and the general public were given 90 days to submit comments and data establishing the essentiality of specific uses. Department scientists are currently reviewing the information submitted. Decisions with respect to cancellation of non-essential DDT uses will be made as promptly as those reviews can be completed.

*In November 1969, the Department issued notices of cancellation of Federal registrations for the use of DDT for shade tree pests, house and garden pests, tobacco pests, and pests in aquatic areas such as swamps and wetlands. These four uses account for 35 percent of the DDT used in this country.

*In March 1970, the Department issued a notice of cancellation of the registration of TDE insecticide for use on tobacco. TDE is a breakdown product of DDT.

These steps, taken to restrict and eliminate uses of DDT, are being carried out within the limits of legal procedures and authority of the law. Safety, health, and public welfare are the primary considerations in dealing with DDT products and their registration or cancellation. Decisions are based on evaluation of scientific data.

The scientific evidence now available does not establish that the use of DDT constitutes an imminent hazard to human health.

Scientific evidence indicates that there are some adverse effects upon certain species of fish and wildlife, but such effects do not constitute an imminent hazard to fish and wildlife or the environment.

DDT has indisputably important and beneficial uses in connection with human health and agriculture, and there are not yet available suitable substitutes for all essential uses.

The use of DDT should continue to be reduced in an orderly, practical manner which will not deprive mankind of uses which are essential to the public health and welfare.

Each year, the Department spends millions of dollars for research to develop biological, cultural, mechanical, and other nonchemical methods of pest control. Many of these techniques are currently being used by the Department--either alone or in conjunction with chemicals--to achieve control or eradication of specific pests. During the foreseeable future, however, use of pesticides will be necessary for the protection of the Nation's food and fiber supplies and institutions, and for the protection of the public health, people, and their homes.

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U.S. Department of Agriculture
July 1970

PERSISTENT PESTICIDES AND THE ENVIRONMENT

It is the policy of the U.S. Department of Agriculture to practice and encourage the use of those means of effective pest control which provide the greatest measure of protection to man, his animals, wildlife, and other components of the natural environment.

Each year, the Department spends millions of dollars for research to develop biological, cultural, mechanical, and other nonchemical methods of pest control. Many of these techniques are currently being used by the Department--either alone or in conjunction with chemicals--to achieve control or eradication of specific pests. During the foreseeable future, however, use of pesticides will be necessary for the protection Nation's food and fiber supplies and institutes, and for the protection of the public health, people, and their homes.

The Federal Insecticide, Fungicide, and Rodenticide Act requires that pesticides be registered with the Department before they can be distributed in interstate commerce. Registration is not granted

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unless scientific evidence is provided to prove to USDA experts that the product can be used safely and is effective when applied according to label directions.

Registered uses of pesticides undergo continuous review to maintain compliance with the Act.

More recently, pesticides have been used so universally, it has been necessary to take into account the total environment when considering whether to register a pesticide for a specific use. The Department seeks the opinions of experts in many fields to evaluate pesticides and their registration.

On January 28, 1970, the Department of the Interior; Health, Education, and Welfare; and Agriculture signed a new interagency agreement designed to improve the review of applications for pesticide registration. While recognizing the statutory authority of USDA for all final decisions on registration applications, the agreement strengthens the role of (1) the Department of Health, Education, and Welfare in evaluating pesticide products as their use relates to human health and (2) the Department of the Interior in assessing effects of pesticide products on water quality, fish, and wildlife.

Secretary of Agriculture Clifford M. Hardin, as chairman of the Pesticide Subcommittee of the Cabinet Committee on Environmental Quality established a Working Group to provide day-to-day coordination of Federal activities relating to pesticides. Membership of the Working Group includes representatives of the Department of the Interior; Health, Education, and Welfare; Defense; Transportation; State; and Agriculture, with observers from the Office of Science and Technology, the Bureau of the Budget, and the Office of Intergovernmental Relations.

The Department has intensified its review of those pesticides that retain their identity for months and even years after application. They are not readily broken down by chemical reaction or bacterial action in air, soils, or water; or, if they do break down, the resultant breakdown products are also persistent and retain many of the properties of the original chemical. Fortunately, only minute amounts of these chemicals are soluble in water.

Almost all of these "persistent" pesticides belong to a group of chemicals called chlorinated hydrocarbons and bear such names as DDT, methoxychlor, aldrin, dieldrin, BHC, lindane, chlordane, TDE, and heptachlor. They tend to be stored in the biota of the environment and create hazards for some animals at the top of the food chain.

The Department has taken steps to reduce the use of these pesticides as rapidly as possible.

Over the past 10 years, the Department has been reducing the use of persistent pesticides in its programs. For example, a nonpersistent insecticide was substituted for DDT for gypsy moth control and dieldrin for control of grassland grasshoppers; and a bait was substituted for heptachlor in control of imported fire ants.

The Department's actions on persistent pesticides are based on a number of scientific studies including an in-depth review by the National Academy of Sciences-National Research Council during 1968-69. One of the conclusions by the distinguished scientists on the NAS-NRC committee was that "available evidence does not indicate that present levels of pesticide residues in man's food and environment produce an adverse effect on his health."

The NAS-NRC report stated that "persistent pesticides are contributing to the health, food supply, and comfort of mankind....," but also pointed out that "residues of certain persistent pesticides in the environment have an adverse effect on some species of wild animals and threaten the existence of others." The committee recommended, therefore, that "further and more effective steps be taken to reduce the needless or inadvertent release of persistent pesticides into the environment."

Late in 1969, after evaluating the NAS-NRC report and similar studies by USDA scientists, the Department announced that Federal registrations for uses of persistent pesticides would be canceled. Exceptions will be made only for specific uses shown to be essential for protection of public health or welfare.

The Department recognizes that more concerted action must be taken now to reduce the use of some pesticides. The cancellation of pesticide registrations, however, must be based on the evaluation of pertinent scientific data and judgment. Actions taken by the Department are governed by Federal laws designed to protect the rights of everyone--farmers and manufacturers, as well as the general public. However, safety and health are primary considerations the Department considers in registering pesticides.

In worldwide consideration of pesticides, the Department must respect the rights of foreign governments to determine their own needs and policies. Many underdeveloped nations have widespread famine and deadly diseases that cannot be controlled except with pesticides.

The U.S. Government has not prohibited the export of DDT and other persistent pesticides but makes data on hazard of pesticide use available to foreign governments.

Actions taken thus far to restrict uses of persistent pesticides other than DDT are:

- *On November 13, 1969, Secretary of Agriculture Clifford M. Hardin directed that protection of the environment from contamination by persistent pesticides receive greater emphasis in the registration of new pesticide products and the review of those already registered with the Department.
- *In November 1969, the Department issued notices of cancellation of Federal registrations for the use of DDT for shade tree pests, house and garden pests, tobacco pests, and pestes in aquatic areas such as swamps and wetlands. These four uses account for 35 percent of the DDT used in this country.
- *In November 1969, the Department published a notice that all remaining uses of DDT will be discontinued except those uses which are essential in the protection of human health and welfare and for which there are no effective and safe substitutes. Farmers, scientists, industry, health officials, and the general public were given 90 days to submit comments and data establishing the essentiality of specific uses. Department scientists are currently reviewing the information submitted. Decisions with respect to cancellation of nonessential DDT uses will be made as promptly as those reviews can be completed.
- *In March 1970, the Department issued a notice of cancellation of the registration of TDE insecticide for use on tobacco. TDE is a breakdown product of DDT.
- *On March 9, 1970, the Department canceled Federal registration for all uses of aldrin and dieldrin insecticides in aquatic environments. Dieldrin is the most widely found pesticide in the environment after DDT and is a breakdown product of aldrin.
- *On March 25, 1970, the Department canceled registrations for the use of lindane and benzene hexachloride (BHC) insecticides on beans, citrus, corn, and peas. Both chemicals are persistent pesticides from the same family as DDT.
- *During February and March 1970, the Department suspended Federal registrations for products containing alkylmercury and/or cyano

methylmercuri guanidine that are labeled for use as seed treatments. These actions were taken because directions for proper use and caution statements required by USDA on product labels have failed to prevent misuse of treated seed. The Department also issued a warning to seed dealers, farmers, and livestockmen against mixing pesticide-treated seeds with food or feed.

In addition to reducing the use of persistent pesticides, the Department has taken action to withdraw uses of nonpersistent pesticides whenever scientific studies show they endanger public health or environmental values.

*On February 27, 1970, the Department canceled many uses of 60 pesticides previously registered for use in controlling pests of livestock and poultry, vegetables, fruits, forage, and cereal grains. The mass cancellation was the latest in a series of actions to phase out "zero-residue" pesticide registrations. Present analytical methods are such that previously undetectable minute amounts of chemicals can now be found.

*On April 15, 1970, the Department announced the immediate suspension of registrations of liquid formulations of 2,4,5-T herbicide for use around homes, on lakes, ponds, and on ditch banks.

*On May 4, 1970, the Department canceled registration for all remaining uses of 2,4,5-T herbicide around the home, and for all uses on food crops intended for human consumption.

The actions involving 2,4,5-T were taken when the Department of Health, Education, and Welfare determined that injections of high doses in pregnant mice caused birth defects. Rats were not affected. No data are available on humans.

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Dear Mr. Schaefer:

Secretary Hickel has asked us to reply to your recent transmittal of the Northeastern Division's Resolution No. 5.

On June 18, Secretary Hickel announced a new policy prohibiting the use by Interior agencies of 16 chemical pesticides, including

- 22 -

DDT and seven other chlorinated hydrocarbons. The prohibition applies to organic arsenicals, mercurials, 2,4,5-T, as well as several other compounds which have proven particularly toxic to fish and wildlife. For your convenience, we are enclosing a copy of the news release and the official policy statement.

For several years, the Department of the Interior has consistently opposed the use of persistent or highly toxic chemical pesticides on its own lands and has gone on record in favor of an orderly and rapid reduction of the use of these pesticides, particularly DDT and its related products. Much of the recent evidence of environmental contamination and direct harmful effects on fish and wildlife has been developed by the Department's scientists, frequently working in cooperation with State conservation agencies.

We thank you for your expression of professional opinion as presented in Resolution No. 5.

Sincerely yours,

Assistant Director

DEPARTMENT OF THE INTERIOR

News Release

OFFICE OF THE SECRETARY

For Release Thursday, June 18, 1970

SECRETARY HICKEL BANS USE OF 16 PESTICIDES
ON ANY INTERIOR LANDS OR PROGRAMS

Secretary of the Interior Walter J. Hickel today announced a new policy flatly banning the use of 16 types of pesticides on any lands managed by the Department's bureaus and agencies, or in any program run by them. The Department administers approximately 70 percent of all federally owned lands.

Included in this list of prohibited pesticides are such widely-known substances as DDT, Aldrin, 2, 4, 5,-T, Dieldrin, Endrin, Heptachlor, Lindane and Toxaphene. Also on the list of uncondition-

ally banned items are Amitrol, arsenical compounds (inorganic), Asodrin, Bidrin, DDD (TDE), mercurial compounds, Strobane, and Thallium Sulfate.

The Secretary pointed out that nearly all use of these pesticides has been banned on Interior Lands during recent years. The purpose of the new statement, he said, is to establish a policy for guidance of all Interior personnel.

Another group of chemical pesticides, titled the Restricted List, are to be used only when non-chemical techniques have been considered and found inadequate, and when use can be limited to small-scale applications.

Secretary Hickel emphasized that the use of any chemical pesticide by his agencies must be aimed at a specific pest problem, and involve minimum strength and minimum frequency of application.

"We in the Interior Department--the Nation's chief conservation agency have a special obligation to protect the environment for all the people," Secretary Hickel said.

"We are charged by law with responsibility for protecting interstate and coastal water quality, our fish and wildlife resources, the integrity of our national parks, public lands, and recreation areas," the Secretary continued.

"These, and many other responsibilities assigned to us, impose a problem, and offer an opportunity. We must do our utmost to set an example for government at all levels."

The new policy declaration signed by Secretary Hickel requires all Department personnel to "consider safety and environmental quality as the primary factors in making the decision whether or not to use a pesticide."

The Restricted List -- to be used only if other systems will not work, and then only in small applications -- consists of the following pesticides:

Aramite, arsenical compounds (organic), Azinphosmethyl (Guthion), Benzene hexachloride, Carbophenothion (Trithion), Chlordane, Coumaphos, cyanide compounds, Demeton, Diazinon, Dioxathion, Diquat, Disulfoton (Di-syston), DN compounds such as dinitrocresol; Dursban, Endosulfan, EPN, Ethion, Kepone, Methyl parathion, Mevinphos (phosdrin), Mirex, nicotine compounds, Paraquat, Parathion, Phorate (Thimet), Phosphamidon, Picloram, Sodium Monofluoroacetate (1080), Temik, Tepp, and

Zectran.

Any proposed program involving use of chemicals on the Restricted List also will require review by President Nixon's Cabinet Sub-Committee on pesticides, Secretary Hickel's order said.

The new Interior guidelines on pesticide use require that chemical pesticides should not be used alone when non-chemical, or integrated chemical and non-chemical, techniques offer an alternative option.

No pesticide will be used when there is "basis for belief" that water quality will be degraded, and hazards exist that will unnecessarily threaten fish and wildlife, their food chain, or other components of the natural environment.

Large scale non-specific applications will not be made of any pesticides, the guidelines specify.

A contingency plan will be developed for all pesticide storage areas under Interior control to prevent spills; provide remedial action in case they do occur; and formulate disposal methods.

Federal, State and local authorities will be kept informed concerning pesticide research and control programs of interest to them, and their views will be solicited and considered in formulating Interior's programs.

All pesticide applications by Interior agencies will conform to the guidelines and standards of the Pesticides Sub-Committee of the Cabinet Committee on the Environment.

Internal machinery for assuring compliance with these guidelines is outlined in detail in the Secretary's new policy statement.

x x x

UNITED STATES DEPARTMENT OF THE INTERIOR

Office of the Secretary
Washington, D.C. 20240

DATE: June 12, 1970

DEPARTMENT OF THE INTERIOR RESPONSIBILITIES
AND
POLICY ON PESTICIDES

The Department of the Interior has the responsibility of assuring maximum protection to the environment.

The Department will use all its means to reduce pollution resulting from pesticide use.

It will be the policy of the Department to consider safety and environmental quality as the primary factors in making the decision on whether or not to use a pesticide.

In areas and programs under its jurisdiction, it will be the policy of the Department to:

1. Conform with all provisions of Federal and State pesticide law.
2. Not to use chemicals named on attached Prohibited List.
3. Use chemicals on attached Restricted List only when:
 - a. non-chemical techniques have been considered and found inadequate, and
 - b. use can be limited to small scale applications.
4. Use of any chemical pesticide must be aimed at a specific pest problem and involve minimum strength and frequency of application.

Secretary of the Interior

POLICY ON PESTICIDES

Prohibited List

Aldrin

Amitrol
Arsenical Compounds (inorganic)
Azodrin
Bidrin
DDT
DDD (TDE)
2, 4, 5-T
Dieldrin
Endrin
Heptachlor
Lindane
Mercurial Compounds
Strobane
Thallium Sulfate
Toxaphene

POLICY ON PESTICIDES

Restricted List

Aramite	Kepone
Arsenical compounds (organic)	Methyl parathion
Azinphosmethyl (Guthion)	Mevinphos (Phosdrin)
Benzene hexachloride	Mirex
Carbophenothion (Trithion)	Nicotine compounds

Chlordane	Paraquat
Coumaphos	Parathion
Cyanide compounds	Phorate (Thimet)
Demeton	Phosphamidon
Diazinon	Picloram
Dioxathion	Sodium monofluoroacetate (1080)
Diquat	Temik
Disulfoton (Di-syston)	TEPP
DN compounds such as dinitrocresol	Zectran
Dursban	
Endosulfan	
EPN	
Ethion	

U.S. DEPARTMENT OF THE INTERIOR
 INTRADEPARTMENTAL PESTICIDES WORKING COMMITTEE
 WASHINGTON, D. C. 20240

DATE: June 12, 1970

INSTRUCTIONS FOR IMPLEMENTING
DEPARTMENT OF THE INTERIOR POLICY ON PESTICIDES

Guidelines for Use of Pesticides

1. Chemical pesticides should not be used alone when non-chemical or integrated chemical and non-chemical techniques offer an alternative option.

2. No pesticide will be used where there is basis for belief that:
 - a. Water quality will be degraded and
 - b. Hazards exist that will unnecessarily threaten fish, wildlife, their food chain or other components of the natural environment.
3. Large scale non-specific applications will not be made of any pesticide.
4. A contingency plan will be developed for all pesticide storage areas to:
 - a. Prevent pesticide spills from affecting areas outside of the storage areas,
 - b. Take remedial action if the spill extends out from the storage area, and
 - c. Formulate disposal methods.
5. Federal, State and local authorities will be kept informed concerning pesticide research and control programs of interest to them and their view will be solicited and considered when formulating our own programs.
6. All applications of pesticides will conform to the guidelines and standards of the Pesticides Subcommittee of the Cabinet Committee on the Environment.

Technical Assistance

The Federal Water Quality Administration, the Geological Survey and the Fish and Wildlife Service will assist in securing compliance with these guidelines.

Review of Pesticide Programs

Each Interior Bureau which conducts or finances pesticide programs will appoint a pesticide representative to coordinate and review their Bureau's programs.

Reporting Requirements

All Interior Bureaus and Officers are directed to report any potential

or actual contamination of the environment from pesticides to that Interior Bureau having statutory authority or responsibility for that abatement of such pollution. If no Interior agency has such authority or responsibility, the condition will be reported to the Intradepartmental Pesticide Working Committee for the attention of the Secretary.

PROSPECTUS

AN INTERNATIONAL SYMPOSIUM ON RIVER ECOLOGY AND THE IMPACT OF MAN

Sponsor: Northeastern Division, American Fisheries Society

Dates: June 20-23, 1971

Place: Murray D. Lincoln Campus Center
University of Massachusetts
Amherst, Massachusetts

PRELIMINARY PROGRAM COMMENTARY

Robert A. Jones, Chairman
River Ecology Symposium Committee

Program considerations will include the following: Physiological, chemical, zoological and botanical descriptions of a theoretical river. Past and present uses of rivers including case histories of river systems such as the Thames River (England), the Delaware River and the Illinois River will be described. Consideration will be given to the effects of these uses regarding discharge, morphometric changes, sedimentation, heat and chemicals. Included in a session entitled Rationalization of Multiple Use will be dissertations on environmental, economic and political considerations.

Although program participants are not entirely firm at the present time, the following are among those that have agreed to participate:

Dr. John Bardach, University of Michigan, will provide the Symposium introduction. Dr. William Starret of the Illinois Natural History Survey will provide a case history discussion of the Illinois River. The Thames River (England) will be described in a case history by Dr. Kenneth Mann, now of the Bedford Institute of Oceanography, Nova Scotia, Canada.

During a session on the effects of river uses, Dr. T. Blench of the University of Alberta will describe the morphometric changes and Dr. R.S.A. Beauchamp of the Central Electric Generating Board, Surrey, England will discuss heat. Dr. Justin Leonard, University of Michigan, will provide the Symposium summary.

The transactions will be published and will be provided to those attending the Symposium.

Regarding the facilities at the University of Massachusetts, the Murray D. Lincoln Campus Center, where the Symposium will be held, is an ideal facility for this purpose. New and modern, completed only this summer, the building contains main auditorium accommodations for 750 with adjacent rooms equipped with closed circuit television, providing for a total of 1500 conferees. The building contains some 200 hotel type rooms, cafeteria, restaurant and smaller meeting rooms. Accommodations at University housing, consisting of suites containing two bedrooms and a sitting room, will also be available at a nominal rate. All conference costs appear to be well within average per diem expense rates and far below modern large city hotel costs. Located in central Massachusetts, Amherst is easily reached from both Hartford-Springfield, Bradley International Airport and Boston's Logan International Airport. Public transportation will be available from Bradley and New England's Interstate Highway system provides excellent road transportation.

Additional details will be forthcoming and all members of the Society will receive pre-registration forms early next spring.

WARMWATER FISHERIES WORKSHOP

Jon K. Anderson, Chairman
Warmwater Workshop Committee

The Fifth Annual Warmwater Workshop was held in Vermont at the Stratton Mountain Inn on October 26 and 27, 1970. Forty-four bio-

logists representing nine states, two provinces, two universities and the U. S. Bureau of Sport Fisheries and Wildlife attended. The workshop was divided into three separate sessions.

Creel Survey

Proper methods of planning, preparing, and analyzing data were discussed at the Creel Survey Session chaired by Dr. James McCann. Creel surveys used by various Northeastern States were reviewed and analyzed to determine their effectiveness. It was decided that there was a great need for a statistician in the Northeast on a consultant basis. This statistician would aid field biologists in preparing their surveys and analyzing their data. It was decided it would be desirable for all interested states to hire a single qualified statistician that could handle these problems. A request will be made at the Northeastern Division meeting to the commissioners to examine this plan and decide if it would be feasible for the states to jointly hire a consultant statistician.

Problems in Fish Sampling

Colton Bridges chaired the session on fish sampling. Various types of gear used in sampling fish populations were discussed and analyzed. It was recognized that various types of gear can and are selective as to species and size of fishes they collect. The safety of gear, particularly electro-fishing gear, was reviewed and found to vary with each state. It was felt that there was a need within the Northeast to standardize sampling procedures and reporting data. By standardizing, data from one state could be compared with other states. A committee, comprised of Colton Bridges from Massachusetts, Kenneth Wich from New York, Jack Miller from Pennsylvania, Charles Ritzie from Maine was formed and they will examine all collecting, analyzing, and reporting procedures to attempt to standardize them for the Northeast. They will report their results at the Sixth Annual Workshop next year.

Stocking

The fish stocking session, chaired by Delano Graff, examined all participating states stocking procedures. Only a few states in the Northeast have extensive warmwater fish management programs. Fishes discussed in this session were muski, northern pike, walleye, smallmouth and largemouth bass. Stocking rates of the various states were compared and a suggested stocking rate was established that could be used as a base for all the states in the Northeast. It was felt that there was very little evaluation of present warmwater management procedures in the Northeast and that there is a need for

many of these programs to be evaluated. Put and take fishing which is presently conducted by Pennsylvania, Quebec and New Jersey with warmwater fishes in large population centers was discussed. Sources of warmwater fish for stocking were analyzed and it was decided that proper fish culture was the best method of satisfying a state's needs.

LOCAL CHAPTER NEWS

MINUTES OF THE SECOND FORMAL MEETING

OF

THE SOUTHERN NEW ENGLAND CHAPTER OF THE AMERICAN FISHERIES SOCIETY

December 9, 1969, Yankee Drummer Motor Inn, Auburn, Massachusetts

The second formal meeting of the Southern New England Chapter of the American Fisheries Society was held at the Yankee Drummer Motor Inn in Auburn, Massachusetts on December 9, 1969. President Irwin Alperin called the meeting to order at 10:00 A.M. and after a welcome and brief history of the chapter formation introduced Vice-President Allen Peterson. Allen requested more members to pre-register and then introduced the first four morning session speakers.

Two papers were presented during the afternoon session. President Alperin then opened the business meeting at 3:15 P.M. Secretary-Treasurer Richard Hames read the minutes of the December 17, 1968 meeting and gave a treasurer's report of the June 10, 1969 meeting. Both were accepted. President Alperin discussed the problem of voting for non-members of the AFS who attended chapter meetings. It was concluded that new officers would pursue this question further. No resolutions were heard from the floor to be passed on the N. E. Division resolutions committee. A letter from the N. Y. chapter extended an invitation for our officers to attend their meetings. Robert Jones discussed the 1971 "Symposium on River Ecology" and explained the need and scope of the proposed program. James McCann and Robert Jones pointed out the importance of increased membership in AFS and the duties and benefits of membership. Larry Scofield suggested that the chapter elect reporters for the N. E. Division newsletter. Allen Peterson suggested that the new officers discuss this with the Secretary-Treasurer of the N. E. Division.

The meeting was then turned over to Colton Bridges, Chairman

of the nominating committee, who presented the following slate of officers: President Allen Peterson; Vice-President, Saul Saila and John Stolgitis; and Secretary-Treasurer, Barton Marcy, and Peter Minta. The Secretary-Treasurer was delegated to cast one vote for President and the members to vote for Vice-President and Secretary-Treasurer. The following officers were elected: President, Allen Peterson; Vice-President, Saul Saila; and Secretary-Treasurer, Barton Marcy. The motion was made by Louis Carufel and passed by members to present a plaque to each retiring president.

The meeting was adjourned at 4:15 P.M.

Respectfully submitted,

Barton C. Marcy, Jr.
Secretary-Treasurer, SNEC, AFS

MINUTES OF THE THIRD FORMAL MEETING
of
THE SOUTHERN NEW ENGLAND CHAPTER OF THE
AMERICAN FISHERIES SOCIETY

December 1, 1970, Publick House, Sturbridge, Massachusetts

The third formal meeting of the Southern New England Chapter of the American Fisheries Society was held at the Publick House in Sturbridge, Massachusetts on December 1, 1970. President Allen Peterson called the meeting to order at 9:45 A.M. and gave a brief welcoming address. Vice President Walter Whitworth (Program Committee Chairman) introduced the first of four morning speakers.

Three papers were presented during the afternoon session. The business meeting started at 3:45 P.M. with President Peterson calling the meeting to order. He discussed the past, present and future of the chapter. He urged members to vote in both the national and Northeast Division elections for officers using the new mail-ballot system. Dr. Walter Whitworth was introduced as the new vice president replacing Dr. Saul Saila. Dr. Saila is on sabbatical leave from the University of Rhode Island. Dr. Whitworth presented the past president plaque to retiring President Peterson. Secretary-Treasurer Barton Marcy read the recent chapter correspond-

ence and the minutes of the December 9, 1969 meeting. He then gave an updated treasurer's report and urged more members to respond to dues contributions. Both reports were accepted. President Peterson suggested using the new mail-ballot voting privilege in lieu of a formal Resolutions Committee for the chapter. Mr. Robert Jones discussed the program of the "River Ecology and the Impact of Man" symposium to be held in Amherst, Massachusetts on June 20-23, 1971. President Peterson reported that non-members attending meetings can not vote in chapter elections based on the parent society's regulation. A voting member must be a paid-up member of the parent society in such elections. No action was taken on the election of a reporter for the Northeast Division Newsletter. The responsibility for this function was left to the chapter secretary-treasurer. All future chapter meetings must be called "workshops" as originally designated at the conception of the chapter. President Peterson urged more people to preregister at future meetings to assure a more accurate count which aids in general workshop planning.

The meeting was turned over to Mr. Irwin Alperin, Acting Chairman of the Nominating Committee (in lieu of Paul Hooper). The following slate of officers was presented: President, Walter Whitworth; Vice President, Colton Bridges and James McCann; Secretary-Treasurer, Roger Reed. The Secretary-Treasurer was instructed to cast one vote for President and one for Secretary-Treasurer and the members to vote for Vice President. The following officers were elected: President, Walter Whitworth; Vice President, Colton Bridges; and Secretary-Treasurer, Roger Reed.

The meeting was adjourned at 4:30 P.M.

Respectfully submitted,

Roger J. Reed
Secretary-Treasurer, SNEC, AFS

CENTRAL PENN CHAPTER

Cooperation and exchange of information among Federal and State employees, University students and faculty members, and private individuals involved in fisheries biology has been and continues to be one of the primary goals of the Central Penn Chapter of the American Fisheries Society.

Seminars were held monthly at either Lamar National Fish

Hatchery, Lamar, Pa., Benner Springs Research Station, Bellefonte, Pa., or Penn State University, University Park, Pa. Seminar topics included: population dynamics of rock bass, the Judeo-Christian ecological paradox, Pacific salmon in Alaska and Oregon, Conowingo Reservoir-Muddy Run ichthyological studies, ecology of the longnose gar, trout culture in vertical units, acute toxicity of low pH to aquatic insect larvae, and the Spruce Creek catch-and-release study.

The annual Steak Fry-Business Meeting was held in May and the following officers were elected for the 1970-71 year: President, Thomas Groutage, BSW, Division of Fishery Services, Lamar, Pa.; Vice-President, Delano Graff, Benner Springs Research Station, Pennsylvania Fish Commission; Secretary-Treasurer, William Kimmel, Graduate Student, Penn State University; and Executive Committee Members, Robert L. Butler and Robert F. Raleigh, Pennsylvania Co-operative Fishery Unit, Penn State University.

A letter from the Central Penn Chapter expressing concern over the destruction of State waterways by highway construction was sent to Governor Shafer, Lt. Gov. Broderick, and the Democratic candidate for Governor, Milton Shapp.

Upcoming activities of the Central Penn Chapter of the AFS include monthly meetings featuring speakers and discussions on various aspects of aquatic ecology. In the early planning stage for this coming year is a statewide fisheries seminar. All those interested in fishery biology and related fields will be invited to attend. The programing will include presentations of papers and a panel discussion concerning mercury in aquatic ecosystems.

NEW YORK CHAPTER

1969 Annual Meeting

The annual meeting of the New York Chapter of the American Fisheries Society was held at Syracuse on December 4-5, 1969 in conjunction with the New York Fish and Wildlife Resource Conference. This was the third annual conference jointly sponsored by our Chapter and the New York Chapter of the Wildlife Society. The theme of the program was entitled "Meeting the Future Demands of Our Fish and Wildlife Resources" and a panel discussion held on the morning of December 5, revolved about this topic. In the afternoon, another panel discussion covered various aspects of "Management

Measures to Meet the Needs of Fishing and Hunting". Panelists were challenged by uninhibited and vigorous questioning from an audience of over 200 people. Program chairman, Dr. Alfred Eipper (Fish) and Dr. Donald Behrend (Wildlife), and their respective committee members did an outstanding job in program development and their efforts were greatly appreciated.

MINUTES OF 1969 BUSINESS MEETING
NEW YORK CHAPTER, AMERICAN FISHERIES SOCIETY
SYRACUSE, N.Y. - DECEMBER 4, 1969

1. The meeting was called to order at 8:40 P.M. by President William Flick. A quorum was present. One guest, Dr. Robert Hutton, was introduced. Irwin Alperin, President of the New England Chapter was invited, but received his invitation too late. He did agree that it would be beneficial to have chapter officers attend meetings of neighboring chapters. President Flick announced that he had attended the February Northeastern Division meeting in West Virginia and the September national meeting in New Orleans. He stated that three meetings of the Executive Committee had been held during the year and described a letter concerning the threat of chlorinated hydrocarbons which was sent to ten key legislators. He urged attendance at the Centennial meeting of the Society to be held in New York City in September, 1970.
2. Adoption of the minutes of the December 6, 1968 meeting was moved by Robert Van Wie and passed.
3. Treasurer Clifford Creech read his report. Balance on hand as of December 4, 1969 was \$439.36. Motion by Robert Harding to accept the Treasurer's Report was passed. Robert Brewer, Chairman of the Audit Committee, reported that the Treasurer's records were examined and found to be in order.
4. Report of Committees
 - a. Al Eipper, Chairman of the Program Committee, offered to pass on suggestions and ideas to ease the next chairman's burden.
 - b. Paul Neth, Chairman of the Membership Committee, reported the Chapter had gained on member for a new total of 101 in 1969. He cited new Department and Cornell personnel as a source of additional members.

c. Steve Simkins, Chairman of the Professional Standards Committee, summarized the many activities of his group during the past year:

(1) Training Program for Fisheries Workers - Majority of those canvassed for opinion favored; contact with Cornell to explore possibilities revealed that a field training program for students was being developed and could be available to state workers. A. C. Petty moved "that the New York Chapter of the American Fisheries Society go on record as being in favor of a training program in New York State to improve the competence and working performance of technical fishery workers and other personnel who would benefit by attendance. Motion passed unanimously. In investigating the possibilities of upgrading sub-professional items in state service, the Committee learned of present Department efforts from Bureau Chief Carl Parker. The Committee recommended that the next committee investigate a proposal to allow advanced sub-professionals to qualify to enter the professional grades.

(2) Standards for Fisheries Biologists in New York State - A majority of those canvassed favored licensing of biologists with the same qualifications for a license as those adopted by the parent Society. The outlook for licensing is dim, however. The Board of Regents has sole authority to issue licenses in this state and approve the licensing of groups on the basis of the welfare of the general public. The foresters have not been successful to date in moving four different bills out of legislature committee - partially because of interval disagreement on the need. An alternate to licensing is certification by the Dept. of State, such as is done for Notary Publics.

Based on the overwhelming support of the Chapter for the concept of licensing; the committee recommended that (a) an ad hoc committee be formed to further investigate the subject; (b) such a committee be Albany oriented and (c) the committee determine the feelings of University and Department administrators toward the subject. A motion to accept these recommendations was made by Leigh Blake and approved by a 42-2 show of hands.

(3) High School Recruitment Material - There are 1200 guidance personnel in the state with their own monthly organ. An article could be presented for this outlet. Career Brochures are available for distribution, but a major pro-

blem is a lack of display space in guidance offices. The Committee suggests the production of a career film as a better approach. Funds might be available from various sources, such as the Sportsmen's State Council, SFI and AFS. Tony Bonavist moved "that the New York State Chapter of the American Fisheries Society participate in the production of a full color sound film entitled 'Fisheries As A Profession'." Motion approved. The Committee recommended an ad hoc committee be formed to pursue this matter.

d. Martin Pfeiffer, Chairman of the Heraldic Committee, announced that the members had approved one of three proposed designs for lapel pins by mail ballot. Details of color, etc. remain and are to be resolved by the committee.

e. David Green, Chairman of the Resolutions Committee, presented one resolution recommending legislation to eliminate the use of chlorinated hydrocarbons by 1971 except under emergency conditions approved by the Departments of Health and Conservation and urging research by the State to develop alternate methods, safer pesticides and improved methods of pesticide application. Walter Kellar moved that the wording be amended to "safe pesticides". This motion was defeated. Howard Dean then moved the original resolution, which was passed.

f. Russ Fieldhouse presented the proposed by-laws prepared by the By-Laws Committee in the absence of Chairman John Gould. Each section was read, discussed, amended by motion where applicable and finally adopted by motion. By-laws must now be submitted to the Society for approval.

5. The Secretary presented a brief report of his mailings during the year.

6. Unfinished Business - Al Eipper noted that the results of efforts to interest students in the Chapter were indicated by the number present - none.

7. New Business - President Flick offered some thoughts for consideration by the incoming officers:

a. Assist in or conduct a field trip to view fisheries activities in the state before or after the meeting for participants in the Centennial meeting. Dr. Hutton described plans for the meeting and some of the problems facing the Society. Dr. Webster moved that the Secretary write to the co-chairmen of the Centennial Committee offering the Chapter's assistance in any way possible,

but particularly in developing a tour of points of interest in the state. Motion passed.

b. The Chapter should either take a more active role in or actually sponsor the unofficial newsletter now put out by the Bureau of Fish. - - - - -

8. Dr. Dwight Webster presented the Chapter's charter from the parent society to President Flick.
9. Don Pasko, Chairman of the Nominating Committee, presented the following slate: President - Paul Neth; Vice-President - Robert Griffiths; Secretary-Treasurer - Kenneth Wich. There being no nominations from the floor, it was moved and passed that the Secretary cast one ballot for this slate.
10. Paul Neth, newly elected President, thanked the members on behalf of the new officers; called for a round of applause for the outgoing officers and committee members and adjourned the meeting at 11:30 P.M.

Respectfully submitted,

Kenneth Wich, Secretary

COMMITTEES

1970

Executive

Paul Neth, Chairman
Robert Griffiths
Kenneth Wich
William Flick

Ad-hoc Licensing

John Gould, Chairman
Robert Harding
James Lindsey

Auditing

Walter Keller, Chairman
Gene Lane
Leslie Wedge

Membership

Robert Griffiths, Chairman
Howard Dean
Bonnie Jackson
William Shepherd
C. Lavett Smith
T. H. Wohnsiedler

Nominating

John Forney, Chairman
William Miller
U. B. Stone

Awards

Donald Pasko, Chairman
Alfred Eipper

By-Laws

Eli Dietsch, Chairman
Robert Brewer

Heraldic

Martin Pfeiffer, Chairman
William MacGregor

Publicity

Maurice Otis, Chairman
Paul R. Maynard
Gerard C. LeTendre

Resolutions

Richard Schaefer, Chairman
Leight Blake
Edward Holmes

Inter-Meeting Progress and Activities

Plans for creating a public service film on "Aquatic Sciences as a Profession" are well under way. The Professional Standards Committee has been busily engaged in preparing an outline and developing a script. The versatility of the film will make it applicable for personnel recruitment and education in aquatic ecology. Solicitations for financial support have thus far resulted in generous contributions from the Sport Fishing Institute, Trout Unlimited and the New York Conservation Council and American Game Association Foundation. Production is tentatively scheduled to begin in the first half of 1971.

Prior to the American Fisheries Society Centennial Meeting in September, a two-day tour of fishery facilities in the Syracuse - Ithaca area was conducted under the auspices of the Cooperative Fishery Unit at Cornell's Department of Conservation and the New York Chapter of the American Fisheries Society. The trip was designed primarily for visiting Cooperative Fishery Unit personnel. High points included Cornell's warmwater fishery investigations at Oneida

Lake, the new Eastern Fish Nutrition Lab and National Fish Hatchery at Cortland, the Cooperative Fishery Unit's research program at the Cornell Fishery Laboratory, Cornell's research vessel, the new Cayuga Lake spawning channel and the fishway at Cayuga Inlet. Approximately twenty biologists were in attendance from as far away as Utah and Virginia. The participants expressed surprise at the intensity and diversity of the research programs resulting from the cooperative efforts of the university and State.

The Chapter is also pleased to announce that not all words fall on deaf ears. Its 1969 resolution recommending legislation to eliminate the use of chlorinated hydrocarbons by 1971, except under emergency conditions, has accomplished its purpose with the help of other concerned groups. As of January 1, 1971, ten compounds, including all mercury compounds, were prohibited for use in New York State. In addition, over sixty-two compounds are now restricted by a commercial or purchase permit.

1970 Annual Meeting

The Fourth Annual Fish and Wildlife Resource Conference, sponsored jointly with the New York Chapter of the Wildlife Society, was held in Syracuse on December 4-5, 1970. "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry" soberly traced the application and potential of computers for various resource problems. It is anticipated that in the near future almost every professional directly involved in resource work will have recourse to a computer, if only for compiling data.

Prospectus on First Natural Resource Conference

The State's first Natural Resource conference will be held at Grossinger's in Liberty, February 20-22, 1971, offering an opportunity for an exchange of ideas among the State chapters of the Wildlife Society, the Society of American Foresters, the American Fisheries Society, and the Soil Conservation Society of America. "Politics and the Environment — Who Should Make the Decisions?" will provide the ferment for lectures, panel discussions and private, after-dinner debates.

MINUTES OF 1970 BUSINESS MEETING
NEW YORK CHAPTER, AMERICAN FISHERIES SOCIETY
SYRACUSE, N.Y. - DECEMBER 4, 1970

1. The meeting was called to order at 8 P.M. by President Paul Neth.

A quorum was present. Mr. Colton Bridges, Vice President of the New England Chapter, was introduced. Dr. Robert Hutton was present during the day but could not stay for the business meeting. President Neth briefly summarized Chapter activities during the year and thanked committeemen and all members for their participation and support.

2. Adoption of the minutes of the December 4, 1969 meeting was moved by James Lindsey and passed.

3. Secretary-Treasurer Kenneth Wich presented his report. No communications were received during the year other than replies from two state legislators in response to the pesticide resolution adopted at the 1969 meeting. Both favored the resolution. Balance on hand as of December 4, 1970 was \$360.12. The report was approved by the membership. Walter Keller, Chairman of the Audit Committee, reported that the Treasurer's records were examined and found to be in order.

4. Report of Committees

a. Howard Loeb, Chairman of the Program Committee, credited many people for the success of the 1970 conference. Special thanks were extended to James Forbes, Program Chairman for the Wildlife Society, and Dick Dumas who handled arrangements.

b. Bob Griffiths, Chairman of the Membership Committee, reported that membership had increased from 101 in 1969 to 114 this year. The Committee had been relatively inactive because of the by-laws question over membership categories.

c. Steve Simpkins reported that the Professional Standards Committee had received the following contributions toward production of the career film: Trout Unlimited - \$100; Sport Fishing Institute - \$500 and our Chapter - \$200. The New York Conservation Council and American Game Association has pledged \$1700 once the tax exempt status of the Chapter is clarified. A prospectus and preliminary film treatment has been developed and specific film sequences discussed. Filming should start in spring 1971 and be completed and the film ready for release by spring 1972. The parent Society may also contribute to the film once the problem of determining an equitable way of providing financial support for Chapter activities is solved.

d. Dick Schaefer, Chairman of the Resolutions Committee, introduced two resolutions. Number 1, urging the Great Lakes Fishery Commission to make every effort to obtain funds to treat Lake Ontario tributaries for lamprey control during federal fiscal

year 1972, was adopted as amended. The second, calling for the appointment of an ad hoc committee to investigate the total environmental effects of chemicals used by the Department of Environmental Conservation, was debated at length. Opposition centered around the theme that the Department should study this problem rather than the Chapter. A motion was made and seconded to commit this resolution for further study and presentation at the next annual meeting. Motion was approved.

e. John Gould reported that his ad hoc Licensing Committee had met with the Education Department and confirmed that a legislative sponsor for any licensing attempt must be found. The committee felt professional licensing was of particular importance now that licensed engineers are part of the new Department. They recommended the Committee be continued to develop a specific proposal.

f. Eli Dietsch, Chairman of the By-Laws Committee, reported that the parent Society had rejected that portion of the by-laws establishing an "affiliate member" category. After reviewing possible courses of action, he recommended the next Committee canvass Chapters nationwide for their views and explore the mechanism for amending the Society Constitution to allow this membership category in Chapters. Steve Simkins introduced the following motion as amended: "The New York Chapter of the American Fisheries Society appoint a committee to study the feasibility of permitting individuals to join the Chapters as affiliate members with voting privileges without their having to be members of the American Fisheries Society." Motion approved with one negative vote.

g. Don Pasko, Chairman of the Awards Committee, submitted a written report with a number of recommendations to initiate an Awards program. A motion was made and approved to accept these recommendations.

5. Old Business - Al Eipper reviewed the pre-Centennial field trip held for Fisheries Cooperative Unit personnel. The trip was well received by the eight attendees from five Units.

6. New Business - John Gould reviewed the upcoming state Natural Resources Conference. Congressman John Dingell will be keystone speaker; this will be an opinion session, not a technical conference.

7. John Forney, Chairman of the Nominating Committee, presented the following slate: President - Robert Griffiths; Vice President -

Howard Loeb; Secretary-Treasurer - Martin Pfeiffer. There being no nominations from the floor, it was moved and approved that one ballot be cast for this slate.

8. William Bentley moved that some token of appreciation be given in appreciation to past Presidents. Motion approved.

9. After closing remarks by newly elected President Griffiths, the meeting was adjourned at 10:30 P.M.

Respectfully submitted,

Kenneth Wich, Secretary-Treasurer

NEWS FROM THE STATES AND PROVINCES

CONNECTICUT

Board of Fisheries and Game

Personnel News

New Employees - Two district fisheries biologists were hired this year. Richard Modlin has been assigned to District III and James Moulton to District I. Peter Minta, Jr. and Anthony Cantele, the previous district biologists, have been assigned to the Hartford staff.

Elections to Office - Robert Jones was elected president-elect of the Northeastern Division of the AFS at the meeting held in Wilmington, Delaware.

New Facilities

The contract for construction of the Quinebaug Valley Hatchery was signed on June 26 and work started on July 13. This main hatchery building, foreman's house and one well are scheduled for completion in time for eggs to be put down this fall. The remainder of the hatchery will be completed next year.

DELAWARE

Division of Fish and Wildlife Department of Natural Resources and Environmental Control

The Delaware Game and Fish Commission is no more. The commission form of state government has been replaced with a cabinet form of government. Under this system the former Game and Fish Commission has become the Division of Fish and Wildlife of the Department of Natural Resources and Environmental Control.

The Secretary of the new department is Mr. Austin N. Heller. Norman G. Wilder, the acting director of the Division of Fish and Wildlife, will become special assistant to the secretary as of October 1, 1970. Dr. Jay L. Harmic, the former assistant director, has resigned to head up a special science-education program in Gunning Bedford School District. Dr. Harmic was serving as head of technical services when he left.

Formerly, the personnel of the Division served as game and fish workers. Now they are either fish or wildlife. The head of the division has three sections under him. Fisheries operations (marine police, maintenance, construction) is headed by Mr. William Moore who is a former district manager. Wildlife operations is headed by Mr. Robert Graham who is the former Federal Aid Coordinator. The Technical Services Section is the research and advisory arm of the Division. Acting as head of Technical Services is Mr. Charles Lesser who is a former game and fish biologist. Mr. Lloyd Alexander (new) is a wildlife biologist in the section. Fisheries biologists are: Mrs. Catherine C. Martin (formerly a biologist with the Water and Air Resources Commission), Mr. Robert A. Beck (formerly a game and fish research assistant), and Mr. Frederick C. Bonner (formerly district game and fish manager).

The fisheries section now handles all inland fisheries, commercial fisheries, marine fisheries, and shellfisheries. This obviously is a large job and there currently are openings for several biologists.

Delaware is proud to say that the fish ladders on the Bradywine did pass shad this year. This anadromous fish project is a joint project between Pennsylvania and Delaware. These two fish ladders are the first of eleven to be built in Delaware and three in Pennsylvania.

The Division of Fish and Wildlife plans to start biological surveys of Delaware's tidal creeks, Assawoman Bay and mosquito con-

trol impoundments. Particular emphasis is to be placed on the fin-fish populations.

University of Delaware

The University of Delaware announces the awarding of advanced degrees to the following students:

- 1970 Masters - Derickson, Wm. Kenneth
The shore zone fishes of Rehoboth
and Indian River Bays of Delaware. Dr. K. Price
- 1970 Masters - Humphries, Edythe M.
Seasonal settling of the Hydrozoa
and the Ectoprocta in Rehoboth Bay,
Delaware. Dr. D. Maurer
- 1970 Masters - Jones, Raymond
Effects of temperature and salinity
on osmoregulation of developing spiny
dogfish (Squalus acathias) embryos. Dr. K. Price
- 1970 Ph.D. - Merrill, Arthur
The family Architectonicidae
(Gastropoda: Mollusca) in the
Western and Eastern Atlantic. Dr. F. C. Daiber
- 1970 Ph.D. - Schmelz, Gary W.
Some effects of temperature and
salinity on the life process of the
striped killifish, Fundulus majalis
(Walbaum). Dr. F. C. Daiber
- 1970 Masters - Scotton, Lewis N.
Occurrence and distribution of
larval fishes in the Rehoboth and
Indian River Bays of Delaware. Dr. K. Price

The University of Delaware Marine Laboratory has completed its fifth summer school program. The program offered courses at the Cape Henlopen Marine Laboratory. There were accommodations for a marine biology program for Junior and Senior High School students.

MAINE

Fisheries Division, Department of Inland Fisheries and Game
and
Atlantic Sea-Run Salmon Commission

Personnel News

New Employees - James Haywood, a former employee, has returned to the Department as the assistant regional fishery biologist in Machias (Grand Lake Region). B.S. (Biologist I)

William Woodward, also a former employee, has returned from the armed services to fill the position of assistant regional fishery biologist in the Rangeley Lakes Region. B.S. (Biologist I)

Dennis McNeish, having received his M.S. in fisheries in 1969, has accepted the position of assistant regional fishery biologist in the Moosehead Region. University of Maine (Biologist I)

Promotions - Raymond DeSandre from assistant regional fishery biologist to regional fishery biologist in the Rangeley Lakes Region. (Biologist I)
(Biologist II)

Phillip Andrews from assistant research biologist to research biologist at the Fisheries Research Office, Bangor. (Biologist I)
(Biologist II)

Moves - Charles Ritzi, regional fishery biologist in the Rangeley Lakes Region, to fishery biologist in the Belgrade Lakes Region.

Matthew Scott from the Maine Department of Inland Fisheries and Game, regional fishery biologist, Belgrade Lakes Region, to the Environmental Improvement Commission, Augusta, as aquatic biologist.

Donald Mairs from the Maine Department of Inland Fisheries and Game, water chemist, Dry Mills, to Supervisor, Board of Pesticide Control, Augusta.

Awards or Appointments of Merit - Lyndon Bond, Chief of Fisheries, has been appointed a committee member for the forthcoming International Symposium on River Ecology and The Impact of Man sponsored by the N.E. Division, American Fisheries Society.

Kendall Warner, Fisheries Resource Planner, has been appointed program chairman for the N.E. Division of the American Fisheries Society.

Attendance at Conferences - Alfred Meister of the Atlantic Salmon Commission attended the ICES/ICNAF Joint Working Party on North Atlantic Salmon in St. Johns, Newfoundland, March 1970. Al is presently on an Atlantic cruise to Greenland working with the Fisheries Research Board of Canada collecting data on Atlantic salmon.

New Facilities

New lake trout hatchery facilities are nearly completed at the Governor Hill Fish Cultural Station, Augusta. The new structure replaces the old and smaller facility.

A new regional fishery office headquarters has been purchased in Strong to replace the old headquarters for the Rangeley Region.

Important Projects

The final two fishways in the Atlantic salmon restoration project on the Penobscot River have been completed at Veazie and W. Enfield. The river is now open to the East Branch headwaters and to the Millinocket area on the West Branch for the passage of Atlantic salmon. Over 100 salmon have been trapped by Atlantic Salmon Commission personnel this season.

A storage dam has been constructed on the Narraguagus River in an effort to maintain desirable water levels for nursery areas for young Atlantic salmon.

A new project on brook trout stocking rates has been initiated by Phillip Andrews. A number of study ponds have been selected and will receive varying numbers of trout in an attempt to determine the most satisfactory stocking rate or rates.

Publications

Havey, Keith A. and Kendall Warner

The landlocked salmon, Salmo salar, its life history and management in Maine. Sport Fishing Institute, Washington, D.C. and the Maine Department of Inland Fisheries and Game. 1970

Anderson, Richard B., and Owen C. Fenderson

An analysis of variation of insecticide residues in landlocked Atlantic salmon, Salmo salar. J1. Fish. Res. Bd. Canada 27:1-11. 1970.

Warner, Kendall

Age and growth of brook trout, Salvelinus fontinalis, in some northern Maine streams. Copeia, 1970, No. 2, June 1, pp. 358-360.

Havey, Keith A., and Robert M. Davis.

Factors influencing standing crops and survival of juvenile salmon at Barrows Stream, Maine. Trans. American Fish. Soc., Vol. 99, No. 2, pp. 297-311. 1970.

Department of Sea and Shore Fisheries

Personnel News

Deaths - Donald M. Harriman, Director of the Department's Marine Fisheries Extension Program was killed April 28, 1970, when a private plane he was piloting crashed landed near the St. Stevens, New Brunswick, airport.

New Employees - Donald Nelson has been employed to replace Bradford Sterl as the Area Biologist for the Western Maine Coast.

Afton Farrin, Jr. has been employed as a Marine Fisheries Extension Aide.

Walter Foster of Friendship has been hired on a contract basis to work on the aquaculture program. He will work with clams, oysters, and mussels in connection with the Maine Yankee Atomic Plant at Wiscasset.

Daniel Schick has been employed as a Marine Research Scientist and will be working on the marine worm aquaculture program.

Promotions - Bradford Sterl, formerly the Area Biologist for the Western Coast area, has been promoted to Coastal Wetlands Coordinator.

Phillip L. Goggins, formerly Laboratory Director, has been appointed Planning Coordinator for the Department of Sea and Shore Fisheries of a Comprehensive Fish, Wildlife and Marine Resource Plan. The objectives of the cooperative Department of Sea and Shore Fisheries and Inland Fisheries and Game Department project are to develop both broad species and refined

species plans which will provide preservation and economic, recreational, scientific, and educational use for fish, wildlife and marine species.

Moves - Paul Venno, formerly employed as the Area Biologist for the Central Maine Coast, has been transferred to the position of Director of the Marine Fisheries Extension Program, the position left vacant by the death of Donald Harriman

Frank Ricker, formerly Project Leader of the Estuarine Development Project, has been transferred to the position of Area Biologist for the Central Maine Coast.

Attendance at Conferences - Edwin P. Creaser, Jr., Marine Worm Project Leader, gave an invited paper on the biology of Maine marine worms at the meeting of the American Association for the Advancement of Science held in Boston in December 1969.

Resignations - Frederick Baird, Project Leader for the Anadromous Fish Program, resigned in October of 1969 to accept other employment. Spencer Apollonio, State Oceanographer, will coordinate the Anadromous Fish Program. Lewis Flagg and Clement Walton have been appointed as Project Leaders.

New Facilities

Phase I of the new Fisheries Research Laboratory at Boothbay Harbor has been completed; Phase II work is underway.

Important Projects

1. Estimates and analyses of lobster populations.
2. Effects of thermal effluents on the lobster fishery.
3. Seasonal and geographical fluctuations of commercially important shrimp.
4. Population dynamics of commercially important marine annelids.
5. Stream improvement and fishway construction for anadromous fish.
6. Occurrence, pollution-monitoring and depuration of commercially significant shellfish populations.
7. The effects of climatic changes on resource abundance.
8. Promising experiments in aquaculture are in progress.

Publications

Robert L. Dow
Pesticide residue trends in lobster.

Cyclic and geographic trends in seawater temperature and abundance of American lobster.

Maine's shrimp industry.

Toxic Metals in the Marine Environment.

Sea scallop fishery.

Northern shrimp fishery.

Maine marine worm fishery.

Lobster culture.

A marine resource research and development proposal for northeastern Brazil.

Selected aquacultural forecasts for the coast of Maine.

Aquaculture prospects of the Maine coast.

The role of biological research in fisheries extension.

Marine bait worms. (In cooperation with E. P. Creaser, Jr.)

Fluctuations in marine species abundance with climatic cycles.

Problems influencing use of renewable marine resources - Chapter 12, Maine law affecting marine resources.

Development of renewable marine resources.

Maine coastal pollution.

Existing aquaculture research in Maine.

Marine and estuarine culture in Maine.

Areal economic effects of Westport Island Causeway on the commercial fisheries.

Statement of Robert L. Dow given at the Environmental Improvement Commission Public Hearing, Portland, Maine, concerning site location proposal of King Resources Company.

Spencer Apollonio

The northern shrimp. Unit #10, Fisheries Education Series.

Breeding and fecundity of the glass shrimp (Pasiphaea multi-
dentata) (Decapoda, Caridea), in the Gulf of Maine.

The northern shrimp in the Gulf of Maine. (In cooperation
with E. E. Dunton.)

Donald M. Harriman

A fisheries department-based extension service.

Eels.

Clement J. Walton

Observations on worm mortalities during commercial handling.

Holding techniques for sandworms (Nereis virens).

Bureau of Commercial Fisheries
Biological Laboratory
Boothbay Harbor

Personnel News

Moves - Bernard E. Skud, former Laboratory Director of the Bureau of Commercial Fisheries Biological Laboratory in Boothbay Harbor, Maine, has accepted the position as Director of Investigations of the International Pacific Halibut Commission in Seattle, Washington. Dr. George Ridgway has been appointed as Acting Laboratory Director of the Boothbay Harbor Laboratory.

Attendance at Conferences - Bernard Skud attended the ICNAF Meeting in St. John's, Newfoundland.

Dr. Craig Kensler is attending a special FAO-Latin America Regional Training Program in Mazatlan, Mexico.

Important Projects

A number of projects at the Laboratory are being realigned with the MARMAP (Marine Resources Monitoring Assessment and Prediction) concept. Studies on the offshore lobster populations have been continued with extensive tagging programs both offshore and on Long Island and Cape Cod.

Publications

341. Lewis, R. D.
A bibliography of the lobsters, genus Homarus, Special Scientific Report--Fisheries No. 591, 47 pp.
342. Boyar, H. C.
Offshore and inshore herring are of separate population. Portland Press Herald Industrial and Financial Edition. vol. 83, no. 29, p. 35.
343. Graham, Joseph J.
Temperature, salinity, and transparency observations, coastal Gulf of Maine, 1962-65. U.S. Fish Wildl. Serv., Data Rep. 42, 44 pp. on 1 microfiche.
344. Ridgway, George J., Stuart W. Sherburne, and Robert D. Lewis
Polymorphism in the esterases of Atlantic Herring. Trans. Amer. Fish. Soc. 99(1):147-151.
345. Skud, Bernard E.
Poisonous and venomous marine animals of the world, by Bruce W. Halstead and Donovan A. Courville [Book Review] Trans. Amer. Fish Soc. 99(1):250-251.
346. Stickney, Alden P.
Night lighting for herring--and old technique may have new possibilities. Comm. Fish. Rev., vol. 32, no. 4, pp. 38-40.
347. Kensler, Craig B., and W. Skrzynski
Commercial landings of the spiny lobster Jasus verreauxi in New Zealand (Crustacea: Decapoda: Palinuridae). N.Z. J1 Mar. Freshwat. Res. 4:46-54.
348. Skud, Bernard E.
The Encyclopedia of Marine Resources, edited by Frank E. Firth. [Book Review] Trans. Amer. Fish. Soc. 99(2): 447.
349. Cooper, Richard A.
Retention of marks and their effects on growth, behavior, and migrations of the American lobster, Homarus americanus. Trans. Amer. Fish Soc. 99(2):409-417.
350. Davis, C. W., and J. J. Graham
Brit herring along Maine's coast. Comm. Fish. Rev. 32(5): 32-35.

351. Skud, Bernard E.
Inshore and offshore lobsters form separate population.
National Fisherman Yearbook Issue 1970, 50(13):43-44,
46.
352. Welch, Walter R.
How marine life is affected by environment is researched.
Portland Press Herald, State of Maine Edition, Vol. 107,
No. 5, June 27, 1970.
353. Sherman, Kenneth, and Kenneth A. Honey
Vertical movements of zooplankton during a solar eclipse.
Nature, Vol. 227, no. 5263, pp. 1156-1158.
354. Sherman, Kenneth
Seasonal and areal distribution of zooplankton in coastal
waters of the Gulf of Maine, 1967 and 1968. Special
Scientific Report--Fisheries No. 594: 1-8.

University of Maine, Orono
Cooperative Fishery Unit

Personnel News

New Employees - Dr. Richard W. Gregory became Assistant Unit Leader in October 1969. Dr. Paul A. Haefner, Jr. had served as Assistant Leader from August 1963 until June 1969.

Awards or Appointments of Merit - Dr. Richard W. Hatch, Unit Leader, was appointed to serve on the following committees: Research Committee, Maine Atlantic Sea Run Salmon Commission Executive Committee, Maine Water Resources Center Chairman, Nominating Committee, Northeastern Division, A.F.S.

Attendance at Conferences - The Unit Leader attended the International Symposium on Statistical Ecology at Yale University in August.

The Unit Leader and graduate student Robert Otto attended the annual meeting of the Northeastern Division, American Fisheries Society where Mr. Otto presented a paper on coastal creel census.

Important Projects

The Assistant Leader reported for duty late in October 1969. Since his arrival, he has planned and initiated a project to evaluate productivity and yield in Maine warmwater lakes. Data on waters

of this type is badly needed by state agencies for long range planning purposes. Initial efforts will be concentrated on South Branch Lake, an unpolluted body with an excellent reputation for its small-mouth bass fishery.

Degrees Granted and Abstracts of Completed Projects

McNeish, J. Dennis, M.S., 1969 - Effects of chronic, sublethal dosages of DDT on the swimming performance of young Atlantic salmon Salmo salar Linnaeus.

Effects of continuous feeding of DDT—treated food on the swimming performance of Atlantic salmon parr were investigated. Two groups of fish were feed DDT-treated food at concentrations of 0.01 and 0.02 mg DDT/kg of food for a period of 81 days. Swimming performance, percent hematocrit, mean total length, and average weight were measured after 30, 58, and 81 days of treatment. Whole body determinations of DDT, DDD, and DDE residues were made at each of these sampling periods.

No significant differences in swimming performance, percent hematocrit, mean total length, or mortality were found at any sampling period. Statistical analysis indicated that differences in residue deposition between control and 0.01 ppm treatment group were not significant. Differences in deposition of DDE residues between control and 0.02 ppm treatment group were significant after 30 and 81 days as were total residues and DDT residues after 58 days. These differences seem to represent a real response in the 0.02 ppm group.

The results of this and previous studies suggest that low level contamination of food supplies is unlikely to seriously alter survival capacity in fish.

Shorey, Wayne K., M.S., 1969 - Macrobenthic ecology of a sawdust-bearing substrate in the Penobscot River estuary (Maine).

The macrobenthos of two selected stations in the Penobscot River estuary (Maine) were sampled bimonthly, January through November, 1968. Sediment analyses were made by volume displacement in carbon tetrachloride to permit separation of sediment and sawdust. Sawdust concentrations (as percent of total sample) were nearly equal from two stations. The polychaete Scolecoides viridis and the bivalves Macoma balthica and Mya arenaria dominated the sandy sediments of the shallow stations. Prionospio malmgreni and Corophium volutator were the dominant species in the granular substrate of the deeper

station. The population of the shallow station was seasonally more stable and had a higher mean monthly bio-index (number of individuals/number of species) than that of the deeper station. Suggestions have been made for further investigations on the role of sawdust in the ecology of estuarine benthos.

Publications

Haefner, Paul A., Jr. 1969. Temperature and salinity tolerance of Crangon. *Physiological Zoology*, vol. 42, no. 4: 388-397.

_____ 1969. Osmoregulation of Crangon septemspinos Say (Crustacea: Caridea). *Biological Bulletin*, vol. 137, no. 3: 438-446.

_____ 1970. The effects of low dissolved oxygen concentrations on temperature-salinity tolerance of the sand shrimp, Crangon septemspinos Say. *Physiological Zoology*, vol. 43, no. 1: 30-37.

University of Maine, Orono
Department of Zoology

Important Projects

Project I

Title: Perception of Weak Magnetic and Electric Fields and Measurement of Biological Clocks of Migratory Fishes

Summary: Many theories have been expounded to explain the spectacular homing migrations exhibited by such fishes as the Pacific salmons, Atlantic salmon, and American and European eels. Experimental work has emphasized the roles of olfaction and vision in homing. As evidence accumulates it is becoming obvious that olfaction and vision alone cannot account for the homing feats performed by the migratory fishes. Some of the hypotheses of navigation imply that the animals have sensitivities to magnetic and electric fields in the same order of magnitude of the earth's weak fields. Many of the theories require the organism to possess an accurate chronometer, either exogenously or endogenously timed. A search of the literature reveals that a wide variety of invertebrates can detect and respond to weak magnetic fields, but little positive evidence exists for vertebrates, and none for fishes. Many fishes have been

shown to be extremely sensitive to weak electric fields, but experiments have yet to be conducted on migratory species. Biological clocks are found throughout the plant and animal kingdoms, yet the accuracy and periodicity of the biological clocks of migratory vertebrates have received little or no experimental attention.

Research to fill some of these gaps in the knowledge of the basic biology of migratory Atlantic salmon and American eels will be conducted: (1) to determine if these species can detect weak magnetic fields; (2) to measure their threshold sensitivity to weak electric fields; (3) to measure the periodicity and accuracy of the biological clocks; and (4) to determine if weak magnetic or electric field fluctuations can serve to time these biological clocks.

Sponsor: National Science Foundation

Funding: \$35,800

Duration: 2 years

Starting Date: January 1, 1970

Personnel: Dr. James D. McCleave, Assistant Professor and
Principal Investigator
Mr. Sentiel A. Rommel, Ph.D. candidate
Miss Carole Cathcart, M.S. candidate

Current Status: Early stages of investigation of objectives
1, 2 and 3.

Project II

Title: Ecological Impact of Maine Yankee Atomic Power Company
Plant Under Construction at Bailey Point.

Sponsor: Maine Yankee Atomic Power Company

Duration: 5 years

Starting Date: September, 1969

Personnel: Dr. James D. McCleave, Assistant Professor
Mr. William Hauser, Ph.D. candidate
Mr. Conrad Reckaick, Ph.D. candidate
Mr. Leigh Alexander, M.S. candidate

Current Status: Primary effort has been concentrated on the establishment of a fish species list, studying the seasonal distribution of pelagic fishes, and examining the feeding habits of demersal species. Distribution of larval fishes, distribution of demersal species, and movements of migratory species are in the earlier stages of investigation.

University of Maine, Walpole
Marine Laboratory

Research Activities

Water quality - benthic invertebrate relationships in estuaries. Office of Water Resources Research.

Survey of the hydrography, sediments, plankton, benthos and the commercially important plants and animals, including finfish, in the Montsweag Bay - Back River area. Maine Yankee Atomic Power Company.

An environmental survey of the Damariscotta River estuary. State of Maine, Department of Economic Development, Office of Science and Technology, Maine Marine Resources Stripend Program.

Heavy minerals provenance study of St. George estuary, coast of Maine. State of Maine, Department of Economic Development, Office of Science and Technology, Maine Marine Resources Stripend Program.

Anterior regeneration in the Spionidae (Annelida, Polychaeta).

Small-scale distribution of estuarine phytoplankton.

Phytoplankton sampling problems.

Paleomagnetic investigation of selected flow units on Puerto Rico.

Determination of temperature regimes associated with lower greenschist grade metamorphic rocks.

Petrogenesis and geochronology of the volcanic rocks of the Lesser Antilles Island Arc.

Marine geophysical investigation of the Guadeloupe region, Lesser Antilles Island Arc.

Analysis of magnetic anomalies related to volcanic cones in the Guadeloupe region, Lesser Antilles Island Arc.

Ecology and laboratory culturing of foraminifera.

Distribution of foraminifera in sediments of the Gulf of Maine.

Upper Cretaceous paleoecology, Southwestern France.

A study of the food of Pleuragramma antarcticum with comments on net feeding.

Distribution of Antarctic fishes.

A revision of the southern and Antarctic fish genus Notothenia.

Survey of the macroscopic algae of the Maine coast.

Food preferences of the sea urchin, Strongylocentrotus droehbachiensis (Echinodermata, Echinoidea).

Nereid ecology and development.

The effects of elevated temperatures on sexual maturity and larval development of certain ecologically significant benthos of Montsweag Bay, Maine.

The biology of Aqlophamus sp.

Ecology, reproduction and development of estuarine hydrobiid snails.

Reproduction and development of Macoma balthica.

Systematics of the archannelid genus Dinophilus.

Anatomy and histology of nereid and glycerid polychaetes.

Parasites and diseases of nereid and glycerid polychaetes.

Reproductive biology of spionid polychaetes, Streblospio benedicti and Polydora ligni.

Publications

Page, Frederick C. 1970. Two new species of Paramoeba from Maine. J. Protozool. 17(3): 421-427.

- McAlice, Bernard J. 1970. Phytoplankton sampling with the Sedgwick-Rafter Cell. Limn. & O. Submitted Jan. 1970.
- Page, Frederick C. 1970. Mastigamoeba aspera from estuarine tidal pools in Maine. Trans. Amer. Microsc. Soc. 89(2).
- McAlice, Bernard J. 1970. Observations on the small-scale distribution of estuarine phytoplankton. Mar. Biol.
- Fink, L. Kenneth, Jr. 1970. Evidence for the antiquity of the Lesser Antilles Island Arc. American Geophysical Union (Abstract)
- _____ 1970. Field guide to St. Kitts, Lesser Antilles. Prepared for the International Field Institute, June-July, 1970. 7 pages, 5 figures.
- _____ 1970. Field guide to St. Eustatius, Lesser Antilles. Prepared for the International Field Institute, June-July, 1970. 6 pages.
- _____ 1970. Field guide to Saba, Lesser Antilles. Prepared for the International Field Institute, June-July, 1970. 5 pages.
- _____ 1970. Field guide to Nevis, Lesser Antilles. Prepared for the International Field Institute, June-July, 1970.
- _____ 1970. Field guide to Antigua, Lesser Antilles. Prepared for the International Field Institute, June-July, 1970. 8 pages.
- _____ 1970. Field guide to Guadeloupe, Lesser Antilles, with notes on tectonic history of Lesser Antilles Island Arc. Prepared for the International Field Institute, June-July, 1970. 13 pages, 7 figures.
- _____ 1970. Field guide to the Island of La Desirade, with notes on the regional history and development of the Lesser Antilles Island Arc. Prepared for the International Field Institute, June-July, 1970. 8 pages.
- Dearborn, John H. and David Dean. 1970. Invertebrates from the Davis Strait and Labrador Sea. Antarctic J. of the U. S. Submitted for Sept-Oct publication.
- Schnitker, Detmar. 1970. Das Magnettoubandgesetz als Hilfsmittel in der Mikropalaontologie. Palaontologische Zeitschrift. Fall-Winter 1970.

Page, Frederick C. 1970. A study of two marine species of Flabellula (Amoebida, Mayorellidae). J. Protozool.

MASSACHUSETTS

Division of Fisheries and Game

Personnel News

New Employees - John Lindenberg, graduate from Tufts University with a Master's Degree, joined the Division as Warmwater Fisheries Project Leader.

Peter Oatis, a recent graduate with a Master's Degree from the University of Massachusetts, has taken over the Connecticut River Anadromous Fisheries project replacing Mr. Carl Prescott as Project Leader.

Thomas Palermo, a graduate of McGill University, joined the Division as Water Quality Project Leader. He will inventory the water quality of various state waters as well as analyze the mercury concentrations in fish.

Attendance at Conferences - David Fredenburgh, Culturist-in-Charge of Charles L. McLaughlin State Fish Hatchery presented a paper on the new hatchery at the Northeast Division of the American Fisheries Society in Wilmington, Delaware. He is serving on the program committee of Southern New England Chapter of American Fisheries Society.

Colton H. Bridges, Superintendent of Research and Management and Louis Hambly, Assistant Aquatic Biologist, co-authored a reservoir symposium paper "Evaluation of Sixteen Years Management on Quabbin Reservoir", for Southern Reservoir Symposium Committee. Mr. Bridges served as a session chairman on "Population Sampling", for the warmwater workshop held at Stratton Mountain, Vermont.

Louis H. Carufel, Chief Aquatic Biologist attended a short fish disease course at Leetown, West Virginia. This course is given annually by the Bureau of Sport Fisheries and Wildlife.

Mr. Carufel chaired a technical session at the American Fisheries Society centennial in New York.

Visitors - Earl Moos, New Mexico Game and Fish, Secretary-Treasurer of the Arizona-New Mexico Chapter of American Fisheries Society visited various state fisheries installations in August and September.

Publications

Louis H. Carufel, The latest in modern hatchery technology.
American Fishes and U. S. Trout News - July-August, 1969.

David Fredenburgh, The potential weight loss of rainbow trout as
a result of starvation - Project Fish Culturist, vol. 31, no.
3, July 1969 - pp 172-173.

Division of Marine Fisheries

Personnel News

New Employees - Mr. Richard Beals was named Research Analyst to
head up commercial fisheries statistics section. "Dick" came
from Division of Fisheries and Game.

Mr. James Fair is an Assistant Marine Fisheries Biologist work-
ing on Sport Fishing Inventory. "Jim" is a recent graduate
of the University of Massachusetts in fisheries.

Mr. David Brown works as Assistant Marine Fisheries Biologist
on the North Shore Estuarine team. "Dave" came to us from
Southeastern Massachusetts University.

Mr. Robert Anderson, a recent graduate of the Cooperative
Fisheries Unit of Humboldt State in California, is a co-worker
of Dave Brown as an Assistant Marine Fisheries Biologist on
the North Shore team.

Mr. David Whittaker is employed as an Assistant Marine Fish-
eries Biologist on the South Shore Estuarine team. "Dave"
came to us from St. Mary's University, Texas.

Promotions - Charles Anderson became Federal Aid Coordinator after
heading up the Commercial Fisheries Statistics Section for two
years.

Randall Fairbanks was promoted from Marine Fisheries Biologist
to Research Analyst heading up power plant studies.

Stephen Collings was promoted to Marine Fisheries Biologist on
the power plant studies.

Moves - Mr. Larry Scofield left the Division in June to go back
to his native Oregon to work as an extension agent on farm ponds.

Mr. Salvatore Testaverde left the Division in September to take a position with FAO in Columbia.

Miss Linda Pushee has returned to school to earn a graduate degree from the Virginia Institute of Marine Science.

Awards or Appointments of Merit - Arthur Chesmore, head of the North Shore Estuarine team, was named Massachusetts State Scientist of the Year by the Massachusetts State Scientists Association. "Art" was named for his performance on and off the job, publications, and assistance to other agencies regarding marine fisheries.

Elections to Office - Frank Grice, Director, was elected President of the Northeastern Division, AFS, in January at Wilmington, Delaware.

Allen E. Peterson was elected President, Southern New England Chapter, AFS, in December at Auburn, Massachusetts.

New Facilities

Marine Research Station, Cat Cove, Salem, Massachusetts: The function of the Research Station will be to support and develop the Marine Commercial and Sport Fisheries within the Commonwealth of Massachusetts. To act as a regional (North Shore) headquarters for the Division of Marine Fisheries and to lend laboratory support to all the Division's field activities. Since many government agencies and universities are carrying out basic research in the marine field, it will be more beneficial to the fishing interest of the Commonwealth for the laboratory to have a major emphasis in applied research. That is to develop programs which will have immediate or near future benefit to the fishing industry.

Publications

Anderson, Charles O. Jr., and Larry R. Scofield. 1969, 1968 Massachusetts Coastal Lobster Fishery Statistics. Division Marine Fisheries. Tech Sec. No. 4, 19 pp.

Anderson, Robert D. and Charles F. Bryan. 1970. Age and growth of three surfperches (Embiotocidae) from Humboldt Bay, California. Trans. Amer. Fish. Soc. vol. 99, no. 3, pp 475-482.

Chesmore, Arthur P. and Allen E. Peterson, Jr. 1970. Massachusetts Estuarine Research and Protection Programs. Trans. 35th North American Wildlife and Natural Resources Conf.

Jerome, William C., A.P. Chesmore and C.O. Anderson, Jr. 1970.
A study of the marine resources of the Annisquam River -
Gloucester Harbor Coastal System. Mass. Div. Marine Fisheries.
Mono. Ser. no. 8, 62 pp.

F.E. Lux, A.E. Peterson, Jr. and R. F. Hutton. 1970. Geographi-
cal variation in fin ray number in winter flounder, Pseudo-
pleuronectes americanus (Walbaum), off Massachusetts. Trans.
Amer. Fish. Soc. vol. 99, no. 3, pp 483-488.

United States Department Of The Interior, Boston
Bureau of Sport Fisheries and Wildlife

Personnel News

Moves - George Divine, Assistant Technical Advisor, Indian Point
Ecological Study Hudson River, has transferred from New Windsor,
New York, to Amherst, Massachusetts. George will serve as
Coordinator, Connecticut River Anadromous Fish Program, during
Bill Daugherty's absence for the next ten months.

Frank Carlson has completed training in the 1969-70 Consolidated
Departmental Managers Training Program and is expected to return
to the Hudson River as Technical Advisor to the Indian Point
Ecological Study.

D. G. Gray has entered on duty at North Attleboro National
Fish Hatchery, Massachusetts, as hatchery assistant to gain
experience in cold-water fish culture.

Milt Anderson, Water Resources Coordinator, Bureau of Commer-
cial Fisheries, Regional Office, Gloucester, Massachusetts,
has resigned from the Bureau to accept a position with the
New England Electric Company, Westboro, Massachusetts.

Two additional employees have been added to the Bureau of Com-
mercial Fisheries Regional Office as a result of closing the
Bureau of Commercial Fisheries Regional Office in Ann Arbor,
Michigan, and transfer of functions to Region 3 in New England.
Marvin Boussu is now Assistant Water Resources Coordinator in
the Gloucester office, and Edward Whitesell is Assistant Fed-
eral Aid Supervisor.

John Holston recently transferred from Gloucester Technology
Laboratory to the Gloucester Regional Office, Bureau of Com-
mercial Fisheries, as Associate Regional Director for Fisheries.

William Gordon has transferred from Washington, D.C. to the

Gloucester Regional Office, Bureau of Commercial Fisheries, as Associate Regional Director for Fisheries Economics and Services.

Donald Williams, biological technician, has transferred from Leetown National Fish Hatchery, West Virginia, to the Berkshires Hatchery, Hartsville, Massachusetts.

Bennie Perry, hatchery assistant, North Attleboro National Fish Hatchery, Massachusetts, has transferred to Treasure Lake Job Corps Center, Oklahoma as an instructor and maintenance supervisor.

Awards or Appointments of Merit - William Daugherty, Coordinator, Connecticut River Anadromous Fish Restoration Program, was selected by the Bureau of Sport Fisheries and Wildlife to attend the 1970-71 Consolidated Departmental Managers Training Program in Washington, D.C. Mr. Daugherty was one of the eight employees selected on a nation-wide competitive basis to attend this 10-month intensive management training program.

Retirement - Thomas Schrader, Assistant Regional Director, Cooperative Services, retired in July, 1970, after 30 years' service with the Bureau of Sport Fisheries and Wildlife. Tom's retirement party, held at the Sheraton International House July 1, was a memorable experience. If any friends happen to be in the Brainerd, Minnesota area, drop in; Tom will show you some good fishing spots.

University of Massachusetts, Amherst
Cooperative Fishery Unit

Personnel News

New Employees - Two new graduate students were accepted into the Massachusetts Cooperative Fishery Unit program during the past year. Harvey Katz has been assigned to the Connecticut River shad study and will collect sonic tagging data. Mike Scherer will also work on the river collecting data on the blueback herring life history. Both men are working for an M.S. degree.

Promotions - Dr. McCann received a grade increase this year.

Awards or Appointments of Merit - Dr. McCann received a special citation and plaque from the Massachusetts Division of Fisheries and Game for his past assistance to the Division.

Both Dr. McCann and Dr. Reed were elected as members of the American Institute of Fisheries Research Biologists.

Attendance at Conferences - Dr. McCann presented a summary of the Cornwall Project to the Second Hudson River Symposium, Sterling Forest, New York; to the Southern New England Chapter of the American Fisheries Society; and while on active duty with the U. S. Army at Fort Detrick, Delaware presented a talk on statistical and mathematical problems involved with evaluation of data collected on the Cornwall Project. He accepted the position of Program Cochairman to the International Symposium on River Ecology supported by the Northeast Section of the American Fisheries Society. He attended the unit leaders' meeting and the American Fisheries Society meeting held in Louisiana and the meeting of the Northeast Section of the Society at Wilmington, Delaware. He taught a short course in statistics to a group of fish and game biologists representing the New England area.

Dr. Reed served as chairman for the SCUBA panel at the Northeast Division of the American Fisheries Society's Warmwater Workshop at Sebago Lake, Maine and on the nominating committee for the Southern Chapter, American Fisheries Society. He is also a member of the Program Committee for the International Symposium on River Ecology. He attended a five-day Technical Writing and Editing Course conducted by the U. S. Civil Service Commission in Boston.

Important Projects

Title: Seasonal utilization of food by juvenile winter flounder, Pseudopleuronectes americanus (Walbaum) in an estuarine ecosystem.

Progress Report: Energy utilized for metabolic respiration was determined under a variety of environmental variables. Statistical treatments of the variables included analysis of variance and analysis of covariance. The respiration portion of fishes' energy budget will be described.

During the summer of 1970 Peterson Dredge samples taken in previous years (1968-1969) will be sorted for food species, and flounder stomachs examined. This portion of the study will yield information on the local food habits and food availability for juvenile forms. Investigation of food utilization in growth and gross caloric intake has been rescheduled for the fall, 1970.

Research Assistant: David W. Frame

Title: Evaluation of some sampling procedures for estimating numbers and attributes of marine sport fishermen.

Progress Report: Sampling of three districts (Gloucester-Salisbury, Sandwich-Provincetown, and Buzzards Bay) will be continued through August 1970 in order to assess seasonal changes in the fishery for each area. Sampling in these areas is done with probabilities proportional to estimated effort contributed by the various fishing types (e.g., surf, bridge, pier, inlet, transient boater, resident boater). The assignment in February of Mr. James Fair, Division of Marine Fisheries, to the project permitted modification and augmentation of the survey to include sampling during twilight hours and covering the entire Massachusetts coast. In May, Mr. Fair began coverage of the Cohasset-Sagamore, outer cape, and south cape districts using proportional allocation, and the Buzzards Bay area using simple random sampling. Overlapping estimates with two different sampling methods in the latter area should provide information concerning relative precision of the proportional allocation plan. Though data have not been expanded to date, aerial counts in April and June are in qualitative agreement with ground observations during these periods.

Research Assistant: Glenn R. Piehler

Title: Chlorinated hydrocarbon insecticide effects on the survival of larval winter flounder.

Progress Report: Effects of chronic, low-level pesticide exposures on eggs and larvae of the winter flounder (Pseudopleuronectes americanus, Walbaum) are being evaluated. A previous segment of this project examined chlorinated hydrocarbon residue levels in flounder from the Weweantic River estuary, a small tidal tributary of Buzzards Bay, Massachusetts. The effect of these residue levels on the reproductive success in this estuary for spawning and nursery grounds is of particular concern. Field investigations have demonstrated that certain insecticides (DDT and dieldrin) commonly used in the watershed by cranberry culturing and mosquito control programs are present in the flounder; heptachlor is also present but its source is unknown. Increasing concentrations of these insecticides were noted in their ovaries during the months prior to spawning. Laboratory investigations are presently underway to determine what concentration ranges of the insecticides residues in gonadal tissues generate measurably adverse effects during reproduction. The survival of eggs, larvae, and juveniles spawned from dosed adults is being followed and the reproductive success is then to be

evaluated in light of concentrations from gonads of similarly treated adults. Gas-liquid chromatography is the major analytical tool. The dosing and rearing experiments are being undertaken at the Bureau of Sport Fish and Wildlife Laboratory, Narragansett, Rhode Island.

Research Assistant: Roderick M. Smith

Title: Distribution and abundance of juvenile American shad, Alosa sapidissima (Wilson), in the Connecticut River above the Holyoke Dam, Massachusetts.

Progress Report: The annual progress report for the funding agency entitled "The effects of the Holyoke Dam complex on the mortality and behavior of the American shad" was completed for submission to the Technical Committee for the Fisheries Management of the Connecticut River Basin. The development of computer programs, the analysis of the data, and the development of a detailed outline for the Ph.D. dissertation have required the majority of the investigator's time.

Research Assistant: Jay F. Watson

Degrees Granted

John R. MacInnes. September, 1970. Thesis title: An evaluation of the creel survey design used on Quabbin Reservoir, Massachusetts.

Publications

McCann, James A. 1969. An inventory of the ponds, lakes and reservoirs of Massachusetts--Barnstable County. Water Resources Research Center, Amherst, Massachusetts. Publication No. 15. 102 pages.

McCann, James A. and Frank T. Carlson. 1969. Report on the Biological Findings of the Hudson River Fisheries Investigations, 1965-1968. Pages 6-50 + 30 pages of appendices. In Hudson River Fisheries Investigations, 1965-1968: Evaluations of a proposed pumped storage project at Cornwall, New York in relation to fish in the Hudson River. Hudson River Policy Committee, New York State Conservation Department.

McCann, James A. and Kenneth D. Carlander. 1970. Marke and recovery estimates of fish populations in Clear Lake, Iowa, 1958 and 1959. Iowa State Journal of Science, 44(3): 369-403.

- Reed, R. J. 1969. Thermal loading on the east coast of the United States. In Nuclear Power and Environment: An Inquiry. Conservation Society of Southern Vermont, pp. 29-33.
- Reed, R. J. In press. Underwater observations of the population density and behavior of pumpkinseed, Lepomis gibbosus (Linnaeus) in Cranberry Pond, Massachusetts. Transactions of the American Fisheries Society.
- Mawson, J. C. and R. J. Reed. 1970. Three computer programs: back calculation, condition factor, and stomach content, CDC 3600 Fortran/Format. Jour. Res. Bd. Canada, 29(1):156-157.
- Reed, R. J. and James A. McCann. Length-weight relationships and condition factors for the Arctic grayling, Thymallus arcticus (Pallas), in Alaska. In press. Transactions of the American Fisheries Society.
- Watson, Jay F. 1970. Marking juvenile American shad by immersion in Bismarck Brown Y and Neutral Red. Trans. Amer. Fish. Soc. 99(3):600-602.

NEW BRUNSWICK

Fisheries Research Board of Canada
Biological Station, St. Andrews, N.B.

Personnel News

Among several post-doctoral or graduate students working at FRB St. Andrews, Dr. Curt Wendt of Göteborg, Sweden, has done post-doctoral research on Atlantic salmon physiology with Dr. R. L. Saunders; Dr. David Wildish, formerly of London University, is doing post-doctoral research on water pollution, with PCB's under Dr. Zitko. Mr. William Schaffer of Princeton University has commenced doctoral research on adaptive significance of anadromous behavior in salmonids (Dr. Elson advising) under cooperative arrangement between Princeton, HML, and FRB.

Dr. J. M. Anderson, Director of the Station, attended a number of overseas and North American conferences dealing with fisheries and aquatic environments.

Dr. Aivars B. Stasko, from the Laboratory of Limnology, University of Wisconsin, has joined the staff of our Anadromous Group. He will do research in salmon orientation relative to magnetic fields and in

salmon migrations using ultrasonic telemetry.

Dr. L. M. Lauzier, Program Head of Fisheries Oceanography, has been transferred to Ottawa to coordinate research on aquatic environments.

Dr. J. B. Sprague, Program Head of the Pollution Group, has resigned to join the teaching staff of the University of Guelph, Ontario, but expects to retain connections with FRB, St. Andrews, through HML.

Dr. D. Møller, studying genetics of Atlantic salmon here since September 1968, resigned to return to Bergen, Norway, where he hopes to continue work on Atlantic salmon genetics among other duties.

Dr. F. D. McCracken suffered a serious heart attack last winter but is recovering well and is resuming duties as Assistant Director in St. Andrews after a year in Ottawa.

Mr. J. W. Saunders, trout studies, suffered a serious health setback last winter but is back in harness again.

Mr. Bob Jones, Connecticut Board of Fish and Game and Dr. W. C. Leggett, formerly Essex Marine Laboratory and now McGill University, assisted Paul Elson in successfully initiating sonic tracking studies of salmon in the polluted Miramichi estuary.

New Facilities

The Huntsman Marine Laboratory, named in honour of Dr. A. G. Huntsman, is a new development adjacent to the Fisheries Research Board's Biological Station at St. Andrews, N. B. HML is a result of cooperation between a consortium of Canadian universities and the Fisheries Research Board. The enterprise is incorporated and is registered as a charitable organization. It will provide teaching and research facilities in marine sciences. Membership is not restricted to Canadian universities or even to universities only. Full membership of the International Atlantic Salmon Foundation was announced at the formal opening of the Laboratory on August 24. It is anticipated that HML will partly replace the visiting investigators' program mentioned in the 1969 Newsletter.

NEWFOUNDLAND

Personnel News

New Employees - Three new biologists have joined the staff of the

Resource Development Branch, Department of Fisheries and Forestry of Canada, St. John's. Robert H. C. Wilson, who studied at University of British Columbia and West Washington State College, has joined the Pollution Control Group. Franklin J. Hicks, who joined the Pollution Group in October, was trained at the University of Guelph and Memorial University. Morley K. Farwell, a graduate of University of British Columbia and Memorial University, will be involved mainly with development of the salmon potential of the Exploits River.

Moves - E. J. Sandeman, Fisheries Research Board, St. John's, formerly scientist in charge of redfish investigations, was appointed Head of Commercial Invertebrate Investigations.

Attendance at Conferences - Dr. W. Templeman, Dr. A. May, Messrs. A. M. Fleming, J. M. Hodder, A. T. Pinhorn, E. J. Sandeman, and R. Wells, Fisheries Research Board, St. John's, attended meetings of ICNAF (International Commission for Northwest Atlantic Fisheries) as scientific advisors to the Canadian Commissioners, St. John's Nfld., May 22-June 6, 1970.

Dr. W. Templeman, Dr. A. W. May, and A. T. Pinhorn attended annual meetings of ICES (International Commission for Exploration of the Sea) in Copenhagen, September 25-October 2, 1970.

Resignations - D. M. Mascaluk, biologist with the Pollution Group, Resource Development Branch, Department of Fisheries and Forestry, St. John's, has resigned to undertake training leading to a degree in veterinary science.

Important Projects

The Fisheries Research Board research vessel, A. T. Cameron, left St. John's on August 27, 1970, to investigate distribution of Atlantic salmon in the Davis Strait and Labrador Sea, and to carry out experimental fishing and tagging of salmon in coordination with the Danish research vessel, Adoff Jensen, at Greenland, September to early October.

NEW HAMPSHIRE

Fish and Game Department, Concord Inland and Marine Fisheries Division

Personnel News

New Employees - Edward W. Spurr, Marine Biologist, recently re-

ceived his M.S. degree from the University of New Hampshire. He will be working on our lobster project.

Moves - William Ayer, Marine Biologist, has resigned from the Department to work for the New Hampshire Water Supply and Pollution Control Commission in Concord, New Hampshire. Bill is engaged in their Municipal Services Division.

Awards or Appointments of Merit - Peter Brezosky received the Ralph G. Carpenter Award for his work on our smelt propagation program and more recently as a pathologist.

New Facilities

The Department plans to establish four (4) regional offices over a period of four (4) years. These plans are subject to approval by the legislature. The first office would be established during the 1971 fiscal year.

Important Projects

The Department's coho salmon project looks very promising at this time. The number of returning adults appears to be greater than anticipated. The anglers are very pleased with the cohos they are catching and report that they are very sporty fish. The average fish weighs 9 pounds with the largest being 13.5 pounds. A second stocking was made this past spring and we plan to double our production in 1971.

The Department in cooperation with Water Pollution has undertaken an investigation to determine the amount of mercury present in New Hampshire fishes.

The anadromous fish restoration project on the Merrimack River got underway with the stocking of shad eggs and the inspection of all the obstructions on the river by specialists with the Bureau of Commercial Fisheries from the west coast.

The Department has plans to start a stream bank acquisition program in the fiscal year 1971 providing funds are made available by the legislature.

We have started to comply with our Commission's order to increase our hatchery production by 25 percent.

Employment Opportunities

One (1) Biologist I and one (1) Biologist II have been requested for after July 1, 1971. This request is subject to approval by the legislature.

Publications

Survey Report No. 8c - Biological Survey of the Lakes and Ponds in Cheshire, Hillsborough and Rockingham Counties.

Contour maps of twelve of our largest lakes have been printed.

Water Supply and Pollution Control Commission, Concord

Important Projects

Plans are in progress for a spray-irrigation demonstration project at Mt. Sunapee State Park. The effluent from the oxidation lagoons is to be sprayed into the surrounding forest rather than chlorinated, and released down Chandler Brook and into Lake Sunapee. It is hoped and expected that the contained nutrients will be taken up by the land plants instead of enriching the lake waters.

A duck weed "harvesting" project is in the planning stage, with hopes of removing treatment lagoon nutrients while they are part of the living tissue of the duck weed.

Hot Hole Pond is being readied for an investigation of the effects of mechanical aeration. The question being: Will the homogenizing of the pond waters raise the bottom temperature to the asphyxial point for the cold-water-seeking fishes?

Bureau of Sport Fisheries and Wildlife, Concord

Personnel News

New Employees - David Swendsen, Game Management Agent, replaced Donald Blais in May 1969.

Moves - Edward Aderkas moved to Sacramento, California, in October 1968.

Julius M. Mikolaities left the Bureau and is now employed by the New Hampshire Highway Department. He left in June 1969.

John Gallagher moved to Vero Beach, Florida, in June 1969.

Attendance at Conferences - Approximately 40 guest speaking appearances were made by Bureau personnel at this office.

Important Projects

Evaluating the impact of 209 dams to be constructed by the U. S.

Army Corps of Engineers and the U. S. Soil Conservation Service in the Connecticut River Basin drainage is our most important project. Second in importance is the Northeastern Water Supply Study (NEWS). We have the responsibility of evaluating the impact and recommending alternative methods of providing water for southeastern New England without degrading fish and wildlife resources.

Publications

No formal publications were produced by this office but the Division of River Basin Studies here in Concord prepared 90 reports on water resource development projects during 1969.

University of New Hampshire, Durham
Department of Zoology

New Facilities

The new Jackson Estuarine Lab at Adams Point, Durham, New Hampshire is in full operation.

Important Projects

The University has been carrying on experiments with toxic algae and the eutrophication of some of the larger New Hampshire lakes.

Degrees Granted

The University granted 14 M.S. Degrees and 8 Ph.D. Degrees in Zoology this past spring. There were also 29 B.A. Degrees in Biology and 61 B.A. Degrees in Zoology granted.

NEW JERSEY

Department of Environmental Protection
Division of Fish, Game and Shellfisheries

Personnel News

Moves - Fisheries Biologist Roger Todd, who headed the "Use Studies" program of the Estuarine project being conducted at the Nacote Creek Marine Laboratory, transferred to the Bureau of Game Management. He was replaced.

Attendance at Conferences - Division personnel attended meetings and conferences as follows:

Petroleum Institute-Federal Water Pollution Control Administration Conference - Walter Robinson

Pesticides vs. the Gypsy Moth - Robert Jacangelo

Marine Pollution Ecology Course - Robert Jacangelo

Warmwater Fisheries Workshop - Frank E. Bolton, A. Bruce Pyle, Robert W. Stewart, Hillary Zich

Anadromous Striped Bass Committee - Walter S. Murawski

The Lower Hudson River Fisheries Technical Committee - Walter S. Murawski

Resignations - Fisheries Biologist Ronald White, who headed the "Biological Survey" program of the Estuarine project being conducted at the Nacote Creek Marine Laboratory, resigned to take a position in local law enforcement. He was replaced by John McClain.

Fisheries Biologist Walter S. Murawski, who headed the Federal Aid-to-Fisheries Project F-15-R being conducted at the Nacote Creek Marine Laboratory, resigned to take a position with the New York State Department of Environmental Conservation. He was replaced. Before his departure, Biologist Murawski participated in the Cooperative US-USSR Groundfish Survey Cruise in the Middle Atlantic Bight. Biologist McClain also made a cruise.

Retirement - Director Lester G. MacNamara, Division of Fish, Game and Shellfisheries, retired effective October 1, 1970. To date no replacement has been named. Director MacNamara had been connected with the State of New Jersey, Division of Fish and Game, since 1934.

New Facilities

A small laboratory was set up at the Charles O. Hayford Hatchery at Hackettstown to run water analysis and fish disease determination. This laboratory is under the control of Biologist John Lane.

Project Termination

The D-J project F-28-R entitled "Pollution Studies", was terminated

and the continuation of the pollution work will be carried on by staff personnel funded by State funds.

Publications

Recent reports prepared by staff members are as follows:

The Distribution of Striped Bass, Roccus saxatilis, Eggs and Larvae in the Lower Delaware River by Walter S. Murawski. Miscellaneous Report No. 1M, June 1969.

Aspects of Trout Management Employing Reclamation and Restocking with Fingerling Rainbow Trout in a Stream Environment by Robert H. Soldwedel and A. Bruce Pyle.

Articles by staff members which appeared in New Jersey Outdoors are as follows:

For Better Fishing
by Robert H. Soldwedel and A. Bruce Pyle

The Golden Gift from West Virginia
by Robert W. Williams

Water Quality and the Division of Fish and Game
by A. Bruce Pyle

Eulogy to a Bass
by Robert W. Stewart

They're There
by Robert H. Soldwedel

An Abnormal Largemouth Bass
by Frank E. Bolton

U. S. Department of Commerce
National Marine Fisheries Service
Sandy Hook Sport Fisheries Marine Laboratory, Highlands

Personnel News

New Employees - Carol Samet, Fishery Biologist, 9/69
James Young, Fishery Biologist, 3/70
Walter Stepien, Biological Aide, 9/70

Moves - Larry Ogren, Fishery Biologist, transfer to Eastern Gulf Sport Fisheries Laboratory, Panama City, Florida, 6/70.

Susan Smith, Illustrator, transfer to Tiburon Sport Fisheries Marine Laboratory, Tiburon, California, 2/70.

John Clark, Assistant Director, transfer to Narragansett Sport Fisheries Marine Laboratory, Narragansett, Rhode Island as Research Director, 7/70. Resigned 10/70. Now at Coney Island Aquarium, Coney Island, Brooklyn, N.Y. as Curator.

Robert Wicklund, Biological Technician, now project manager of Bahamas Undersea Foundation, 10/70.

David Deuel, Fishery Biologist, transfer to Narragansett Sport Fisheries Marine Laboratory, Narragansett, R.I., 11/70.

David Hansen, Oceanographer, to Graduate School of Oceanography, Rutgers University, New Brunswick, N.J. 8/70.

Awards or Appointments of Merit - L. A. Walford, Director, Distinguished Science Award, by Department of the Interior, 5/70.

Attendance at Conferences - Bori Olla, Fishery Biologist, 11th International Ethological Conference, Rennes, France, 9/69.

Jack B. Pearce, Biologist, International Biological Programme, London, England, 10/69; Rome, Italy, 9/70. (Also attended 4th European Symposium on Marine Biology, Bangor, Wales, 10/69).

L. A. Walford, International Biological Programme, Copenhagen, Denmark, 9/70.

Elections to Office - David Deuel, President Atlantic Fisheries Biologist, 1970.

Jack B. Pearce, International Biological Programme, 10/68. Appointed as coordinator Theme B. "Effects of Mans Activity on Marine Environment".

New Facilities

New research vessel. Length 37'. Powered by: two 130 H.P. diesel engines. Hull type: down east hull. Equipment: hydraulic winch and boom, 2 fathometers, loran, sea temperature gauge, ship to shore radio, salt water pump, 2 large fish wells.

Important Projects

New Studies - Effects of temperature on behavioral responses of selected marine species.

Development of epibenthic communities at different coastal latitudes.

Distribution of juvenile fish in U. S. Atlantic coast estuaries in relation to temperature-literature survey.

Activity of mackerel in relation to light.

Schooling behavior of mullet.

Racial investigation of weakfish.

Studies in Progress - Distribution of young stages of coastal fishes.

Design, construction and longevity of artificial fishing reefs.

Feasibility of using scrap tires for reef construction.

Effects of sewage sludge on finfish, benthic and plankton resources.

Natural history of bluefish-begun 1963. A compendium on the life history of the bluefish will be the result of seven years of field and lab work by a number of staff biologists. Topics to be covered are distribution, migration, age and growth, racial studies, behavior, spawning grounds and survival requirements of young bluefish.

Publications

1969

Clark, John. Thermal pollution and aquatic life. Scientific American 220(3).

Clark, Hohn. Heat pollution. National Parks Magazine 43(267): 4-8.

Clark, John and Malcolm Silverman. The thermal pollution controversy. Proc. of Pa. Water Conference (in press).

Clark, John, W. G. Smith, Arthur W. Kendall, Jr. and Michael P. Fahay. Data Report I: Northern section, Cape Cod to Cape

- Ogren, Larry and James Chess. A marine kill on New Jersey wrecks. Underwater Naturalist Bull. Amer. Litt. Soc. 6(2):4-12
- Olla, B. L., R. Wicklund and S. Wilk. Behavior of winter flounder in a natural habitat. Trans. Am. Fish. Soc. 98(4):717.
- Pearce, Jack B. Marine biogeography and change—natural and man induced. Ward's Bulletin (in press).
- Prager, J. C. and J. B. Mahoney. Annulment of aziridine (Apholate)—induced growth inhibition in the estuarine flagellate Tetraselmis subcordiformis by some purines and pyrimidines. J. Protozool. 16(1):187-190.
- Smith, W. G. and Michael P. Fahay. A description of eggs and larvae of the summer flounder, Paralichthys dentatus (Linnaeus). BSF&W Research Report (in press).
- Sousa e Silva, E. Cytological aspects on multiplication of Goniodoma sp. Botanica Marine 12(1-4):233-243.
- Walford, L. A. On the natural history of George Sprague Myers. Spec. Publ. Calif. Acad. of Sciences (in press).
- Wicklund, R. Commensalism between sharks and pelagic fishes. Underwater Naturalist 6(1).
- Wicklund, R. Possible mating behavior of black durgons. Underwater Naturalist 6(1).
- Wicklund, R. Observations on spawning of the lane snapper. Underwater Naturalist 6(2).
- 1970
- Olla, Bori L., Harvey M. Katz and Anne L. Studholme. Prey capture and feeding motivation in the bluefish, Pomatomus saltatrix. Copeia 1970 (2);360-362.
- Stone, Richard and John Clark. Don't pollute...do something constructive, build an artificial reef. Skin Diver, July 1970, pp. 62-65.
- Wicklund, Robert I. A puffer kill related to nocturnal behavior and adverse environmental changes. Underwater Naturalist 6(3): 28-29.
- Wicklund, Robert I. Observations on the spawning of the cunner

in waters of northern New Jersey. Chesapeake Sci. 2(11):137.

U. S. Department of the Interior
Bureau of Sport Fisheries and Wildlife
Delaware River Anadromous Fish Restoration Program

Robert Davis, Fishery Biologist, is resigning from the Bureau to return to graduate school at Pennsylvania State University and work on his Doctoral Degree.

NEW YORK

Department of Environmental Conservation
Albany

On July 1, 1970, the Department of Environmental Conservation was created to replace the New York State Conservation Department. The new Conservation Commissioner is Mr. Henry L. Diamond.

Many of the functions, powers and duties of the old Department and Water Resources Commission, excluding those dealing with parks and recreation, were transferred to the new Department. To meet the environmental challenges now and in the future, certain responsibilities previously handled by other State agencies were also transferred. Included were the air and water pollution control and solid waste disposal responsibilities of the Department of Health, Air Pollution Control Board and the Pesticide Control Board, the pesticide control responsibilities of the Department of Agriculture and Markets and the activities of the Natural Beauty Commission.

Also created was an interagency coordinating board called the State Environmental Board which is to serve as a forum for various State departments and agencies and public members to exchange views and ideas for the proper balancing of environmental considerations. Representatives to the Board include Commissioners of Environmental Conservation, Health, Agriculture and Markets, Commerce, Transportation, Parks and Recreation and Local Government and the Chairman of the Public Service Commission, Industrial Commissioner and six other voting members including one representative of industry, one representative of conservationists and four to represent a broad range of interests.

In addition, a Council of Environmental Advisors were established to provide special counsel to the Governor on environmental policy matters affecting the State. The Council consists of seven private citizens representing a broad range of interests and disciplines.

Division of Fish and Wildlife, Albany

Personnel News

New Employees - Dennis A. Thorpe appointed Conservation Biologist Trainee in Region 1 Fish Management Unit effective November 20, 1969.

Lloyd R. Tuttle appointed Conservation Biologist Trainee in Region 5 Fish Management Unit effective November 6, 1969.

Gerald V. Doyle appointed Laborer at Caledonia Fish Hatchery effective December 4, 1969.

Donald E. Slingerland appointed Conservation Biologist Trainee in Region 7 Fish Management Unit effective November 20, 1969.

James E. Taillie appointed Laborer at Caledonia Fish Hatchery effective January 29, 1970.

John W. Harrington appointed Senior Engineering Technician in Central Office Stream Improvement Unit effective February 12, 1970.

Ignatius Maggerano appointed Laborer at Caledonia Fish Hatchery effective April 16, 1970.

Donald R. McCombs appointed Laborer at Caledonia Fish Hatchery effective April 30, 1970.

John Parsons appointed Laborer at Rome Fish Hatcher effective March 12, 1970.

Andrea Andrisco appointed Senior Clerk in Fish Administration Central Office effective May 21, 1970.

Promotions - Paulette Straight appointed Stenographer in Region 6 Fish Management Unit effective February 11, 1970.

Ann Van Alst appointed Stenographer in Region 8 Fish Management Unit effective January 27, 1970.

Stephen R. Mooradian appointed Senior Aquatic Biologist (Prov.) at Cape Vincent Research Station effective November 20, 1969.

Vincent P. Williams appointed Conservation Biologist in Region 1 Fisheries Management Unit, effective March 12, 1970.

Sally Cusack, Senior Clerk in Fisheries Administration, promoted to Senior Account Clerk with Saratoga Springs Reservation effective May 6, 1970.

Dr. Paul C. Neth, Supervising Aquatic Biologist, promoted to Principal Aquatic Biologist in Central Office Fisheries Research Station effective July 2, 1970.

William Coleman promoted to Assistant Supervisor of Stream Improvement (Prov.) in Central Office effective July 2, 1970.

Reassignments - Clifford P. Schneider, Conservation Biologist at Cape Vincent Research Center, returned from Military Leave effective March 4, 1970.

Stephen R. Mooradian, Senior Aquatic Biologist (Prov.) at Cape Vincent Research Station, reassigned as Conservation Biologist in Fisheries Management in Region 2, Olean effective March 26, 1970.

Resignations - Regina M. Lloyd, Stenographer, Region 8 Fish Management Unit, resigned effective November 7, 1970.

Michael Peritore, Laborer, Caledonia Fish Hatchery, resigned effective December 3, 1969.

Ian S. McPherson, Laborer, Caledonia Fish Hatcher, resigned effective December 3, 1969.

Karen J. Lucarelli, Stenographer, Albany Central Office Fish Management, resigned effective December 3, 1969.

Donald E. Slingerland, Conservation Biologist Trainee in Region 7 Fish Management Unit, resigned to enter the Armed Services effective December 3, 1969.

Roy G. Yost, Laborer, Caledonia Fish Hatchery, resigned effective January 28, 1970.

Muriel A. Kenyon, Stenographer, Region 5 Fish Management Unit, resigned effective February 10, 1970.

Melvin Seifert, Biologist Aide in Fish Research at Cornell University, resigned effective February 11, 1970.

Eileen J. McGrath, Stenographer in Central Office Stream Improvement Unit, resigned effective March 2, 1970.

Gerald V. Doyle, Laborer at Caledonia Fish Hatchery, resigned effective March 30, 1970.

Kenneth Sweredoski, Construction Equipment Operator in Region 4 Steam Improvement Unit, resigned effective March 25, 1970.

James Salber, Laborer, Caledonia Fish Hatchery, resigned June 17, 1970.

Retirement - Earl W. Stiles, Principal Aquatic Biologist, Central Office Fisheries Research Station, retired effective July 1, 1970.

Deaths - Robert F. McCarty, Laborer, Warrensburg Fish Hatchery, passed away March 22, 1970.

Arnold Morehouse, Fish & Wildlife Technician Region 6 Fisheries Management Unit, deceased May 7, 1970.

Kenneth LaChance, Fish & Wildlife Technician Adirondack Hatchery, passed away May 29, 1970.

New Facilities

The Cape Vincent Fisheries Station was dedicated on July 16, 1970. The Station coordinates management and research activities on the Great Lakes and St. Lawrence River, concentrating on smallmouth bass, anadromous fish and lampreys.

Important Projects

Salmon Program

Several thousand coho salmon "jacks" and adults moved into tributary streams of Lake Erie last fall. Fishermen took hundreds of these fish, but surveys in late fall turned up numerous salmon and rainbow trout in even the smallest streams. An excellent hatch of walleye also occurred in Lake Erie.

The coho and chinook salmon fishery in Lane Ontario was disappointing, but scattered coho adults and the first chinook "jacks" averaging 22.8" and 3.5 pounds returned to the Little Salmon River and provided some late fall angling opportunity. Returnees were heavily scarred or wounded by lampreys. State biologists, assisted by Bureau of Commercial Fisheries personnel, completed an ammocoete survey of Lake Ontario tributaries in anticipation of chemical control in 1971.

DDT and Mercury Monitoring

Department biologists collected several tons of fish in 1970 from 115 streams and lakes throughout the State for DDT and mercury analyses. Onondaga Lake was closed to fishing because of mercury concentrations in fish up to 8.2 parts per million. Warnings not to eat fish were issued for Lake Erie, Niagara River, Lake Ontario, Oswego River, St. Lawrence River, Lake Champlain, Saratoga Lake and Lake George. Smelt, coho salmon, bullheads, and yellow perch under ten inches tested below the FDA actionable level of 0.5ppm in Lake Erie. Smelt, rainbows and coho salmon were safe in Lake Ontario; and smelt in Lake Champlain. More than 2,000 mercury analyses of fish samples had been run by State laboratories by year's end. Maximum readings, with the exception of Onondaga Lake, hovered near 2.0 parts per million, with the average much lower.

Fish Culture

The Chautauqua Fish Hatchery lost its entire stock of muskellunge fry at swim-up stage. The cause is unknown. Approximately 1,800 muskellunge fingerlings were stocked because of the generosity of other states whom we had helped out previously under similar conditions.

Propagation Section produced and stocked 606,000 pounds of fish in 1970, including 294,190 coho and 140,705 chinook salmon in Lake Ontario and 74,410 coho salmon in Lake Erie. The spring distribution of yearlings comprised 3,092,000 trout weighing 463,500 pounds.

Miscellaneous

A total of 257 new Department of Transportation highway projects were reviewed by Bureau of Fish in the design stage during 1969-70. Recommendations to protect fish and wildlife resources from unnecessary damage have been, or are being, developed for another 132 projects already at various stages of advanced design.

Fish Management Section coordinated the water chestnut eradication program in 1970, treating 2,000 acres in the Mohawk-Hudson Watershed. An estimated 85-95 percent of known infestations were destroyed before seeds could set.

Stream and Lake Improvement Section developed the Department exhibit at the American Fisheries Society Centennial depicting 100 years of fisheries in New York State. The Section also completed 400 improvement structures and 10 parking lots along 20 miles of streams where permanent fishing easements are held

by the State. Seven fish barrier dams and four new fishing access sites were constructed.

Publications

LeTendre, Gerard C. and Clifford P. Schneider. 1969. Age and growth of male walleyes in spawning runs from Black Lake, New York. N.Y. Fish and Game Jour. 16(2):136-144.

Loeb, Howard A. and William H. Kelly. 1969. National fast turquoise KS liquid as a long term dye mark. N.Y. Fish and Game Jour. 16(2):260.

Division of Marine and Coastal Resources Ronkonkoma and Old Field

Personnel News

New Employees - Robert C. Batson was hired as a Conservation Biologist on September 17, 1970. Bob has a Master's Degree from the University of Miami in marine fishery biology and has been assigned to a study of the growth of bay scallops in heated water at the Flax Pond Laboratory.

Walter S. Murawski was hired as a Conservation Biologist on August 27, 1970. Walt has a Master's Degree from Cornell University in fishery biology and comes to us from New Jersey, where he worked for 12 years in marine finfish research. He has been assigned as Project Leader in the D-J Finfish Research Unit at the Flax Pond Laboratory.

Richard Fox was hired as a Conservation Biologist on September 17, 1970. Dick holds a B.S. Degree in biology from Siena College and has been assigned to study the life history of the marine alga, Codium fragilis, in the Environmental Research Unit at Ronkonkoma.

Clayton Colefield was appointed Marine Fisheries Aide in the Environmental Research Unit on October 8, 1970.

Glenn Renfer was hired as Maintenance Man at the Flax Pond Laboratory on April 9, 1970.

Barry Kirsch was appointed Junior Administrative Assistant in the Director's office at Ronkonkoma on July 6, 1970.

Albert G. Wagely, Jr. was hired as a Mechanic in the Bureau

of Fisheries Management and Development on August 11, 1970. Al has been assigned to captain a new 30-foot oil-spill recovery vessel operated by the Division.

Attendance at Conferences -

David H. Wallace, Division Director:

- 1) As a member of the Sea Grant Committee, made an on-site visit to the University of Hawaii in October, 1970.
- 2) Represented Governor Rockefeller in Washington on Coastal Zone Management and presented statement of New York State's position on the proposed legislation.
- 3) Served as a member of the U. S. State Department negotiating team that met with Soviet representatives to draw up renewal of bilateral agreement to regulate fisheries in the Middle Atlantic Bight. As a result of these negotiations, a 2-year agreement was signed by delegates from U.S. and USSR to help conserve stocks of certain fishes (e.g., red hake, silver hake, scup, menhaden, black sea bass).

Albert C. Jensen, Assistant Director:

- 1) Presented paper on foreign fishing effort at the Centennial Meeting of the American Fisheries Society in New York City, September, 1970.
- 2) Presented paper entitled "Soviet Fisheries and Fisheries Research off the East Coast of the United States" at the annual meeting of the Gulf and Caribbean Fisheries Institute at Curacao in November, 1970.

David H. Wallace and John C. Poole, Chief, Bureau of Marine Research, represented the State of New York at the annual meeting of the Atlantic States Marine Fisheries Commission in Tampa, Florida during October, 1970.

Richard H. Schaefer, Director, Flax Pond Laboratory, toured marine fish farming facilities in the British Isles for 15 days during April and May of 1970. Dick also presented a paper on his findings at the annual meeting of the Atlantic Fisheries Biologists in Asbury Park, N. J. during November.

Various staff personnel attended the proceedings at the annual meeting of the Northeast Division of the American Fisheries Society in Wilmington, Delaware during January, 1970; the Centennial Meeting of the American Fisheries Society in New York City during September, 1970; the annual meetings of the New York Chapter of the American Fisheries Society at Syracuse, N.Y. during December of 1969 and 1970; and the annual meeting of the Atlantic Fisheries Biologists at Asbury Park, N.J. during November, 1970.

Resignations - Lawrence R. Briggs resigned as Maintenance Man at the Flax Pond Laboratory on March 25, 1970.

Elections to Office - David H. Wallace served as co-chairman of the local Arrangements Committee for the Centennial Meeting of the American Fisheries Society at the Waldorf-Astoria Hotel in New York City in September, 1970. Bill Miller, Chief, Bureau of Fisheries Management and Development, and Dick Schaefer also served on this committee.

Al Jensen was appointed a Fellow of the American Institute of Fishery Research Biologists.

Dick Schaefer was elected Secretary-Treasurer of the Northeast Division of the American Fisheries Society at Wilmington, Delaware in January of 1970. He also served as 1970 Chairman of the Resolutions Committee, New York Chapter of the American Fisheries Society.

Bill Miller served on the 1970 Nominating Committee of the New York Chapter, American Fisheries Society.

Walter S. Murawski is currently serving on the 1970 Resolutions Committee of the Northeast Division, American Fisheries Society.

Retirement - Alfred Tucker retired as Superintendent of Marine Fisheries on May 31, 1970 at the age of 70. We all wish Al well after 26 years of dedicated service to the State.

New Facilities

Headquarters Building - Construction has begun on the new Headquarters Building for the Department of Environmental Conservation on Long Island. It is being located on the campus of the State University of New York at Stony Brook. The Division of Marine and Coastal Resources expects to occupy these new quarters sometime in 1972.

Flax Pond Research Laboratory - The Marine Research Laboratory was dedicated on June 4, 1970. The laboratory cost \$410,000. and was financed with 75 percent federal funds and 25 percent state funds. The building is single-storied with 8,050 square feet of floor space, of which 2,900 square feet are devoted to laboratories. The non-toxic salt-water system is comprised of two 100 gallon/minute pumps, a 400 foot intake line extending out to a channel in a salt pond, and a delivery system to three laboratories. The pumps are programmed to deliver salt water

from the pond to aquaria and a 12,500 gallon storage tank on high water, and from the storage tank to aquaria when the tide is low. This arrangement permits the use of water of good quality throughout each day. There are 28 fiberglass sea tables which vary in size, but are mostly 9 feet by 3 feet, each supplied with numerous salt-water outlets and electricity.

At the present time, one research project in the new laboratory is concerned with the inducement of spawning in the summer flounder and the effects of temperature and salinity variations on the development of this fish's eggs and larvae. The purpose of the other project is to study the effects of heated salt water upon the growth of bay scallop in winter, a period when the scallop is normally inactive. This study may lead into a beneficial use of heated effluent from power facilities.

Oil-Spill Recovery Vessel - In early August, 1970 the Department of Environmental Conservation purchased a 30 foot vessel called the Mop-Cat catamaran. With associate gear, this boat is designed to remove oil spills. It is the first boat owned by the Department to handle such spills, and it is a symbol of the State's increased interest in the environment.

Publications

Miller, William 1970. (senior author) Hard clam--the gourmet's delight. Marine Resources of the Atlantic Coast, Leaflet No. 14, Atlantic States Marine Fisheries Comm., 8pp.

Jensen, Albert 1970. Validation of ages from otoliths of Gulf of Maine cod. Trans. Amer. Fish. Soc., 99(2):359-362.

_____ Fish and power plants. The Conservationist, 24(3):2-5 (Dec/Jan. 69/70).

_____ Thermal pollution in the marine region. The Conservationist, 25(2):8-13 (Oct/Nov. 1970).

Poole, John C. 1969. A study of winter flounder mortality rates in Great South Bay, New York. Trans. Amer. Fish. Soc., 98(4):

Finkelstein, Samuel L. 1969. Age and growth of scup in the waters of eastern Long Island. N.Y. Fish and Game Jour. 16(1):84-110.

_____ 1969. Age at maturity of scup from New York waters. N.Y. Fish and Game Jour. 16(2):224-237.

Briggs, Philip T. 1969. The sport fisheries for tautog in the inshore waters of eastern Long Island. N.Y. Fish and Game Jour. 16(2):238-254.

_____ 1969. A length-weight relationship for tautog from the inshore waters of eastern Long Island. N.Y. Fish and Game Jour. 16(2):258-259.

_____ 1970. Records of Ectoparasitic isopods from Great South Bay, Long Island, New York. N.Y. Fish and Game Jour. 17(1): (in press).

_____ 1970. Rare or uncommon fishes seined in Great South Bay, Long Island, New York in 1967 and 1968. N.Y. Fish and Game Jour. 17(1): (in press).

Briggs, Philip T. and Joel S. O'Conner. A comparison of the shore-zone fishes from naturally vegetated and sand-filled bottoms of Great South Bay, New York. N.Y. Fish and Game Jour. (in press).

Schaefer Richard H. 1970. Feeding habits of striped bass from the surf waters of Long Island. N.Y. Fish and Game Jour. 17(1): (in press).

Schaefer, Richard H. and Thomas Doheny. 1970. A first record of the Squirrelfish (Holocentrus ascensionis Osbeck) from New York waters. N.Y. Fish and Game Jour. 17(1): (in press).

Department of Conservation
New York State College of Agriculture
Cornell University, Ithaca

Dr. Robert Werner moved back to Syracuse University after a year at Cornell. Bob has reassumed his research and teaching duties at Syracuse as an Associate Professor. One of Bob's graduate students, Thomas C. Field, was appointed to the State Council of Environmental Advisors. Dr. Jay Watson, who received his Ph.D. from the University of Massachusetts last summer assumed responsibility for the relatively new D-J Unit working on rainbow trout of Cayuga Inlet. The inlet fishway has been operational for over a year now, and the experimental spawning channel near Lansing, N.Y., was put into use this fall under Bill Youngs' supervision.

Grad students Mel Siefert and Peter Hofmann left Cornell last spring for jobs with Marine Protein Corp. and Stone and Webster Engineers, respectively. Mel and Pete still have theses to finish

to complete requirements for their Ph.D. degrees. Geoffrey C. Laurence finished his dissertation this fall and passed his final oral examination. Jeff is a fishery biologist at the Narragansett Marine Game Fish Laboratory, one of the labs which was recently shifted from the Department of the Interior to Commerce. Roy Miller also left Cornell and is working as a fishery biologist for the Wildlife Resources Commission on Lake Norman, N.C. Roy passed his M.S. exam and is polishing his rough thesis draft on effects of dissolved oxygen concentration and fanning on survival of large-mouth embryos. Carl Schofield and Allen Bejda are hard at work on their theses and expect to complete requirements for the Ph.D. and M.S., respectively, this semester. New grads in fishery science at Cornell this fall are John Boreman, Douglas Carlson, and Martin Tarby. Major research projects and staff at Cornell remain the same as reported last year. Several members of the Cornell Staff have been busy with preparations for the International Symposium on River Ecology and the Impact of Man to be held at Amherst, Mass., in June, 1971 and sponsored by the Northeast Division of AFS.

U.S. Fish and Wildlife Service
Bureau of Sport Fisheries and Wildlife
Cortland

Eastern Fish Disease Laboratory

Facilities in the new Eastern Fish Disease Laboratory building in Cortland are now in use and the old lab headquarters has been razed. Dr. Art Phillips, the Laboratory Director, expects to retire this summer.

Cortland National Fish Hatchery

Mr. Herbert Rice will attend the 1970-71 Spearfish In-Service Training School for cold-water fish culture.

NOVA SCOTIA

Resource Development Branch
Department of Fisheries and Forestry of Canada, Halifax

Many changes have taken place within the Resource Development Branch during the past year. Former Chief Biologist C.P. Ruggles has been appointed Chief of the Resource Development Branch in the Maritimes Region. J.M. Millen, Senior Development Engineer, has returned from a one-year assignment in Ottawa in connection with the Branch's environmental-quality program. R.A. Hyatt, formerly a District Biologist at Fredericton, N.B., has taken on new duties as a Fish Disease Biologist.

New staff in the Resource Development Branch include the following persons:

Rick Hoos, Biologist, B.Sc. (Calgary), M.Sc. (Victoria), investigation of pollution problems in northeastern New Brunswick with emphasis on the Restigouche River.

Hugh Hall, Biologist, B.Sc. (Alberta), M.Sc. (Calgary), investigation of pollution problems on the Saint John River.

George Bardosh, Chemical Engineer, B.Eng. (McGill), assessment of pollution-abatement proposals from existing and newly developing industries.

Dr. Elvie E. Abbruzzese, Chemist, B.Sc. (McGill), Ph.D. (McGill), chemical analysis of water samples at new laboratory in Dartmouth.

John Peppar, Biologist, B.Sc. (U.B.C.), M.Sc. (U.B.C.), salmon management biologist on the Miramichi River, N. B.

Brian Jessop, Biologist, B.Sc. (U.B.C.), M.Sc. (Waterloo), salmon management biologist, Bay of Fundy rivers.

John Ritter, Biologist, B.Sc. (Guelph), M.Sc. (Guelph), hatchery evaluation biologist, Maritimes Region.

Pollution investigations under the leadership of J. A. Dalziel, involving biological parameters and water-quality information, have been conducted on high-priority-pollution problems in the Maritime Provinces. This information is being used effectively in industrial negotiations concerning pollution control. Assessment of proposed effluent-treatment systems is carried out on existing and newly developing industries, toxicity criteria are assigned to the effluents and advice on pollution-abatement facilities is given to industry by Pollution Section staff.

This fall, the Pollution Section acquired three well-equipped-pollution laboratories at the Bedford Institute, Dartmouth, N. S., which are set up to carry out water-quality analysis, pilot-treatability studies, ecological and physiological assessments on the effects of pollutants. These laboratories are located in a trailer-unit complex consisting of F.R.B. and Department of Fisheries and Forestry units. Fish holding and "wet"-laboratory facilities are to be constructed soon. Office space is also provided for biologists, engineers and technicians at the laboratories.

The Pollution Section has carried out comprehensive investigations in 1970 on many of the large river systems in New Brunswick and Nova Scotia as well as on the Canso Strait in Nova Scotia. The

toxicities of many industrial effluents have now been evaluated and this information is being used in negotiations with companies that are discharging wastes harmful to fish. Toxicity tests are being conducted at a number of Departmental hatcheries and avoidance testing is being performed on certain toxicants at one hatchery.

The Pollution staff have been deeply involved with two recent oil spills by the tankers "Arrow" and "Whale" in Chedabucto Bay and the Gulf of St. Lawrence, respectively. Pollution biologists observed the distribution of bunker "C" in the water column and its effect on littoral and planktonic invertebrates; its effect on the benthic environment was investigated by means of SCUBA. This study is continuing.

Other pollution studies are being conducted on mining pollution in northeastern New Brunswick and applied research on various components of pulp-mill wastes. Toxicity and treatability tests have revealed that groundwood mill and woodroom wastes are acutely lethal to fish. As no chemicals are applied in the above-mentioned processes, the toxic factor(s) is liberated from the wood itself. Studies on this problem are continuing.

Again in 1970, a close watch was kept on the salmon stocks in the Saint John River. Salmon biologists had estimated a larger run to the river than in 1969, and thus imposed less severe restrictions on the commercial fishery. To date, adequate spawning stock has been obtained for the Mactaquac salmon hatchery and for seeding the major upriver tributary, the Tobique River.

Biological evaluation of fish-passage facilities for anadromous species is continuing in Nova Scotia and New Brunswick. Analysis of blood lactic acid levels as an indicator of fatigue proved useful in determining where rest pools are required in fishways. Ultra-sonic transmitter capsules inserted into Atlantic salmon were useful in monitoring the movement of salmon through an aboiteau (flap gate) set in tidal water on a river on the Bay of Fundy.

A new vertical-slot fishway at Morgan Falls, LaHave River, N. S., commenced operation in the spring of 1970. This fishway will make accessible to salmon the upper 40 miles of the LaHave, one of the top early-run salmon angling streams in Nova Scotia.

Oyster habitat in Badeque Bay, P.E.I., is being improved through the planting of scallop shell to increase the area available for oyster-spat settlement. Experimental shell plots have shown at least a four-fold increase over natural areas in the production of

two-year-old oysters.

Biologist T. W. Rowell presented a paper at the Canadian Committee of Freshwater Fisheries Research Meeting in Ottawa entitled: "The Oyster Hatcher: Its Present Status and the Alternative."

Publications

Lister, D. B., and H. S. Genoe, 1970. Stream habitat utilization by cohabiting underyearlings of chinook and coho salmon. J. Fish. Res. Bd., Canada 27(7):1215-1224.

MacDonald, J. R., 1970. An occurrence of male predominance among repeat spawning Atlantic salmon (*Salmo salar*), J. Fish Res. Bd., Canada 27(8):1491-1492.

Wykes, C. E., 1970. 1967 Atlantic salmon commercial catch statistics, Maritimes Region. Resource Development Branch, Department of Fisheries and Forestry of Canada, Halifax, N. S.

_____ 1970. 1968 Atlantic salmon commercial catch statistics, Maritimes Region. Resource Development Branch, Department of Fisheries and Forestry of Canada, Halifax, N. S.

Fisheries Research Board of Canada, Halifax

On September 15, 1969, an Atlantic Regional Office of the Fisheries Research Board of Canada was set up to administer the Atlantic coast laboratories of the FRB. Dr. David R. Idler, formerly director of the Halifax Laboratory accepted the position of Atlantic Regional Director, Research. Other members of the staff who were formerly with the Halifax Laboratory are H. E. Power, Assistant to the Atlantic Regional Director, Research, and P. M. Jangaard, Scientific Liaison Officer. Mr. C. Jackson, formerly with DND Maritime Command Headquarters, is the Executive Assistant with the new unit. Management of the research vessels of the FRB on the Atlantic coast is the responsibility of Mr. W. H. Sparling.

A new anti-pollution research unit has been set up at the Marine Ecology Laboratory in Dartmouth, N. S. It will be staffed jointly by the Resource Development Branch of the Fisheries Service and the Fisheries Research Board and will undertake studies on the effects of various pollutants on marine life.

The problem of phosphorus pollution of Long Harbour, Newfoundland, has been brought under control; and modifications have been made to the Electric Reduction Company of Canada phosphorus plant to enable it to re-use its process water, thus eliminating the need

to dispose of phosphorus-containing effluents in the water of Long Harbour. Dr. Idler, at that time director of the Halifax Laboratory, was given the responsibility for co-ordinating the efforts of the FRB, the Fisheries Service and other government agencies to bring about a satisfactory solution to the problem.

On September 25, 1969, the Ministry of Fisheries and Forestry of Canada announced the closing of the Fisheries Research Board's Technological Station at Grande-Riviere in the Province of Quebec. This action formed part of the Ministry's cutback in programs and staff to maintain the overall budget for Fisheries and Forestry for the next fiscal year. Mr. R. Legendre, Dr. B. Wojtowicz, Mr. A. Bordeleau and Mr. C. Hotton of the Grande-Riviere Station joined the staff at the Halifax Laboratory.

Dr. R. G. Ackman became the Assistant Director of the Halifax Laboratory, Fisheries Research Board of Canada, on January 1, 1970. On April 1, 1970, Dr. G. Fletcher and Dr. R. F. Addison transferred to the newly formed Pollution Research Unit of the Fisheries Research Board attached to the Marine Ecology Laboratory at the Bedford Institute.

On July 15, 1970, Mr. A. L. Wood retired after 32-years service at the Halifax Laboratory of the Fisheries Research Board. Mr. Wood has worked closely with fish-processing firms on the Atlantic coast on the development of modern smoking and salt fish-drying technology, and the introduction of advanced-design frozen-storage facilities.

A major re-equipment of the pilot plant facilities at the Halifax Laboratory, Fisheries Research Board of Canada, has been completed. This will permit an expanded research program into the production of fish protein concentrate from various underexploited species of fish. The establishment of commercial production by the plant of Cardinal Proteins Ltd. at Canso, Nova Scotia, is expected to be the forerunner of an extensive FPC in this area with the consequent need for increased research in this area.

The Halifax Laboratory, Fisheries Research Board of Canada, has co-operated with Seapool Fisheries Ltd., Lake Charlotte, Nova Scotia, on problems of salmonid flesh coloration. The addition of a nutritionist to the staff of the laboratory in the near future will give added capability to assist interests engaged in commercial rearing of fish, shellfish and lobsters.

Nova Scotia Department of Fisheries, Halifax

Honourable John M. Buchana, B.Sc., LL.B., Member of the Legis-

lative Assembly for Halifax-Atlantic, was sworn in as Minister of Fisheries on September 23, 1969, succeeding Honourable James M. Harding, B.A., LL.B., who resigned from the Executive Council. Mr. Glyn T. Sharp, Fisheries Biologist, resigned from the Department in May, 1970. Mr. Ernest C. Cadegan, Fisheries Biologist, was appointed in June, 1970, to replace Mr. Sharp.

A total of 30 fishing craft was completed during the 1969-1970 fiscal year which includes two 140-foot-steel seiners. This is a substantial decrease from previous years and is mainly the result of the federal government's policy concerning subsidies on wooden fishing vessels.

The training program for fishermen continued along the same lines as in previous years and consisted of courses of eight weeks' duration in other selected areas.

Two hundred forty-three fishermen received the 8-week courses in navigation, engines, nets and gear, at the Fisheries Training Centre, Pictou, and at the net loft, Lunenburg. Five hundred twenty fishermen attended 4-week outport courses in engines, nets, and navigation.

Explorations for stocks of red crab were continued along the Scotian shelf. A longline system for trap fishing was devised and several models of crab traps evaluated. About 300,000 pounds of whole crab were processed into two packs: (a) whole-cooked individually frozen crab, and (b) 1-pound packages of cooked, frozen crab meat. Consideration is being given to the installation of refrigerated sea water in the vessel involved in this crab fishery.

In December, 1969, and January, 1970, shrimp explorations were carried out off southwestern Nova Scotia. Good catches, as high as 3,000 pounds per tow, were made in areas west of Roseway Bank. As a result of this demonstration and because of a failure of shrimp to enter the Bay of Fundy, a number of New Brunswick shrimp fishing vessels joined Nova Scotia vessels in harvesting these stocks of shrimp. This fishery developed very rapidly and at times as many as 40 vessels were involved.

Work is continuing on off-bottom methods of rearing oysters and various types of flotation are being examined. It is planned to build an oyster hatchery at Pleasant Point in 1970.

This Department assisted financially with the sending of a young Nova Scotian to Japan to work with a Japanese fishing company for one year. He is expected to study Japanese fishing and processing methods and to familiarize Japanese officials with similar

practices in Nova Scotia.

Brief information on all projects can be found in:

- (1) Fifth Annual Report, Department of Fisheries, Province of Nova Scotia, for fiscal year ending March 31, 1969.
- (2) Sixth Annual Report, Department of Fisheries, Province of Nova Scotia, for fiscal year ending March 31, 1970 (now in draft stage).

Acadia University, Wolfville

Dr. George M. Curry has been appointed head of the Department of Biology. Two post-doctoral fellows are working for a year with Professor Sherman Bleakney on his studies of marine invertebrates. They are Dr. K. W. Petersen and his wife, both from Copenhagen University Zoology Museum. His specialty is Hydroids, hers Polychaets. Dr. Gibson has acquired a Zeiss EM9A electron microscope, together with an LKB Ultratome and Knifemaker.

Dalhousie University, Halifax

Construction of the buildings for the departments of Biology and Oceanography has past the half-way point and occupancy is planned for early summer 1971. Spacious, well-serviced facilities will enhance research and the training of graduate students in many areas of aquatic biology.

Dr. E. S. Deevey, Killam Research Professor of Biology has been elected president of the Ecological Society of America.

Five graduate students, C. M. Jordan, Z. K. Chen Yuen Kee, W. F. Purcell, K. L. Tay and D. L. Waugh, completed their M.Sc. programmes under the direction of Dr. E. T. Garside. Their research activities concerned interrelations of thermal and osmotic stress in euryhaline fish and molluscs. Research in this area is continuing.

J. J. Kerekes, Canadian Wildlife Service, regional limnologist Atlantic Provinces, is continuing his research on primary production in selected lakes in Terra Nova National Park, Newfoundland, in association with the Department of Biology. He has also established a laboratory in Kejimikujik National Park, Nova Scotia, and he will expand his limnologic studies in that region.

Saint Mary's University, Halifax

Dr. Rojo returned from a leave of absence after completing a Demersal fish project for F.A.O. in Argentina. Dr. M. Wiles, Chairman, Department of Biology, was elected Secretary, A.P.I.C.S. Biological Sub-Committee for another year.

Freshwater and marine aquarium facilities are now both in operation. A survey of parasites of lower trophic level freshwater fishes of Halifax and Hants Counties, Nova Scotia, is continuing.

ONTARIO

Department of Lands and Forests, Toronto

Personnel News

George Adams from Arizona has joined the Commercial Fisheries Unit to specialize in biological data gathering.

Dr. Phil Stewart has come from the University of Colorado to head up the Water Quality unit.

Doug Dodge, who is completing his Ph.D. from the University of Guelph, is now on staff as co-ordinator for the Fish Management Units.

Bob Payne has moved to Owen Sound from Head Office, Maple, to assume responsibility for fisheries management on Lake Huron.

Jerry Raher has left the U. S. Bureau of Commercial Fisheries to join the Lake Superior Management Unit of the branch.

Ed Cox who had served several years as District Biologist of Lindsay District is now at Toronto to initiate a fisheries extension program in the province.

Don Johnston and Art Holder completed the Resource Management Course at the University of Toronto this past year.

Harold Manson has been appointed to a new position—hatchery biologist in the field. He will be stationed at a fish cultural station in a district where he will work with the station manager, concerning himself with fish culture and the results of fish plantings.

Bill Straight will be working out of head office at Toronto and specializing in assessing the harvesting of sports fish in the province.

Carl Monk, senior conservation officer from Thunder Bay, is now at head office where he will be concerned with publicity and information.

Doug Howell has left head office, Maple, to take up the position of extension biologist in Hespeler.

S. Toole has been promoted to district biologist in Lindsay Forest District.

J. C. Williamson has been transferred from head office, Maple, to biologist at Sioux Lookout.

G. L. Penny has moved from biologist at Sioux Lookout to Fish and Wildlife Supervisor at Chapleau.

Miss D. P. Brooks, Fish and Wildlife Librarian has left the department to take up a teaching position in Barbados.

H. Orr has left the position of extension biologist in Hespeler to take up the position of district biologist in North Bay.

Meetings

Northeastern Division American Fisheries Society Conference was attended this year by J. C. Williamson and D. C. Sinclair. D. C. Sinclair presented a paper at this meeting.

Dr. C. H. D. Clarke, F. W. Walden and K. J. Chambers attended the Midwest Fish and Game Conference.

H. Ayles and D. C. Sinclair were present at the Western Division of the American Fisheries Society Conference.

F. P. Maher and G. C. Armstrong attended the American Fisheries Centennial meetings in New York.

A. Armstrong has been in attendance at many international conferences on mercury in the environment.

New Facilities

The Department has recently purchased a headquarters on Jean-

nete's Creek for the Lake St. Clair Fisheries Management Unit. This program is headed up by John Byrne.

A great deal of time and expense has gone into looking into the design and establishment of a major hatchery in southeastern Ontario. The location of the hatchery adjacent to a thermo-generating plant is being considered.

A recent acquisition is a portion of land and water adjacent to the Chatsworth hatchery. There are plans for the development of this for additional splake production for Lake Huron rehabilitation.

Employment Opportunities

In the past few years the Ontario Department of Lands and Forests has had innumerable position opportunities. For example, at the present time a position is open which is related to the establishment of commercial catch sampling and to the establishment of quotas on commercial fisheries. In addition, it is expected that a field biologist position will be advertised in the very near future.

Contact for positions would be:

Mr. J. D. Roseborough
Supervisor, Fisheries Section
4625 Whitney Block
Toronto, Ontario

Fisheries Research Board of Canada, Burlington

The Fisheries Research Board Detachment at the Canada Centre for Inland Waters, Burlington, Ontario, under the leadership of Dr. Richard A. Vollenweider, is actively involved with studies on the eutrophication of the Great Lakes. This year emphasis has been placed upon Lakes Erie and Ontario, with limited research upon Lakes Superior and Huron. The work of the group in the field centers around monthly monitor cruises on the two lakes aboard the research vessel M/V Martin Karlsen, in cooperation with other units at the Centre. Here, studies are being made upon the temporal and spatial distribution of phytoplankton and zooplankton in the lakes. Measurements of biomass are being made along with species identification and primary production estimates. Also nutrient enrichment studies are being done on selected stations to determine which elements may be limiting to productivity. Monitor cruises are used

to determine the surface distribution of chlorophyll a in the lakes by fluorometric techniques in order to obtain a better picture of the distribution of phytoplankton as related to various environmental parameters. Studies are in progress on lakes to determine the effects of various pesticides upon algal productivity.

Laboratory studies are an important part of the Fisheries Research Board Detachment. Dr. Arnold Nauwerck is investigating problems of phytoplankton taxonomy with particular emphasis on poorly characterized species. He is also investigating phytoplankton-zooplankton relations. Dr. Walter Glooschenko is doing research on pigments as an index of phytoplankton standing crop with particular emphasis upon improved chlorophyll measurement techniques and pigment degradation. He is also studying the effects of pesticides and other toxic substances upon algal productivity, both in the laboratory and in the field. Studies upon limiting nutrients are being carried out by Dr. M. Munawar. Another of his projects is studies upon the effects of NTA, a phosphate substitute in detergents, upon algal productivity. Cooperative studies are being performed on the roles of carbon, phosphorous, and nitrogen in eutrophication problems in the Great Lakes. Work has recently begun on the ecology and distribution of benthic animals in the lakes under Mr. H. Shrivastava.

Lakehead University

Publications

P. Davis and G. W. Ozburn. The pH tolerance of Daphnia pulex (Leydig, emend., Richard). Can. J. Zool., Vol. 47, No. 6, 1173-1175.

University of Waterloo

Publications

Tedla, S. and Fernando, C.H. Some remarks on the ecology of Echinorhynchus salmonis Muller, 1784. Can. J. Zool. 48, 317-321.

Tedla, S. and Fernando, C.H. 1970. Some aspects of the ecology of the parasite fauna of the gills of the yellow perch, Perca flavescens. J. Fish. Res. Bd. Canada 27, 1045-1050.

Waterloo Lutheran University

Dr. Ed. Kott is continuing his investigation on changes in body

composition of the sea lamprey throughout its life cycle. Last year's work has been extended to include muscle and liver analyses of sea and American brook lampreys. Differences between the parasitic and non-parasitic species are being sought.

Dr. Robert McCauley is continuing the study on causes of alewife mortality in Lake Ontario, N.P. Vertical and horizontal temperature gradients have been constructed and the behaviour of rainbow trout in these has been described.

The horizontal gradient adapted with modifications from the design of Manfred Zahn, is inexpensive as well as easy to construct and operate.

Copies of the original paper accompanied by an English translation are available from R. McCauley on request.

Publications

1970

Kott, E. Differences between the livers of spawning male and female sea lampreys (Petromyzon Marinus). Can. J. Zool. Vol. 48, No. 4, 745-50.

McCauley, R. W. and J. S. Tait. Preferred temperatures of lake trout yearlings (Salvelinus namaycush). In press. J. Fish. Res. Bd. of Canada.

University of Toronto

Dr. F. E. J. Fry was awarded an honorary Doctorate of Science from the University of Manitoba in recognition of his contribution to fisheries science.

Dr. Harold Harvey is in Australia for a sabbatical year.

Dr. Henry Regier has been seconded to FAO in Rome for a year.

Terry MacFayden has joined the faculty of Sir Sandford Fleming community college where he is teaching a course in fisheries technology.

Dr. Fred Ide has retired from full time teaching duties in the Department of Zoology.

PENNSYLVANIA

Pennsylvania Fish Commission

Personnel News

New Employees - New personnel in the Division of Fisheries include: James Meade III, a graduate of Lebanon Valley College, Aquatic Biologist to be stationed at the Benner Spring Fish Research Station.

Ronald D. Lee, a graduate of East Stroudsburg State College, Aquatic Biologist assigned to the Allegheny River and stationed at Tionesta.

Craig Billingsley, a graduate of Colorado State University, Aquatic Biologist assigned to fish culture research and stationed at Linesville Fish Cultural Station.

Joseph O'Grodnick, a graduate of the Pennsylvania State University, Aquatic Biologist assigned to research on whirling disease and stationed at the Benner Spring Fish Research Station.

Promotions - Arthur D. Bradford has been promoted to Division Chief to replace Mr. Buss. Art was formerly Assistant Division Chief. A native Pennsylvanian, Art began his career with the Commission in 1942 as a pathologist. In 1958 he was promoted to Assistant Chief and served in that capacity until his appointment to Division Chief in November of 1969.

Resignations - Keen Buss resigned from his position as Chief of the Division of Fisheries to accept a top post with a commercial organization specializing in aquaculture.

Mr. James McKinney has resigned his position as Aquatic Biologist I to pursue graduate studies at the Pennsylvania State University. Mr. McKinney was assigned to research on whirling disease prior to his resignation.

New Facilities

A new trout rearing station is under construction in Cumberland County on the headwaters of Big Spring Creek. This new hatchery is designed to operate on a flow of 6,000 g.p.m. maximum. An effluent treatment system is incorporated in the design. Completion is scheduled for mid-summer 1970.

Some existing trout hatcheries are undergoing renovation. The Pleasant Gap and Huntsdale units are currently under renovation with new concrete raceways, administrative buildings, visitors centers, and garages being built. Extensive redesign is also planned for the Corry Station.

The main station for Pennsylvania's warmwater fish cultural activities, the Linesville Station, has undergone almost total redesign. Included in the new design are a building housing a visitor center, administrative offices, crew quarters, and hatching and rearing facilities; a new garage and storage building; new ponds and water supply system; an electronic monitoring system for water quality and pump alarms; and a series of experimental vertical units.

Important Projects

A survey of the chemical and physical characteristics and an inventory of fish stocks of the Allegheny River from the Allegheny Reservoir to Franklin, Pennsylvania.

A study of the life history and mode of transmission of the whirling disease organism, Myxosoma cerebralis.

An attempt to re-establish the shad runs in the Brandywine watershed.

A study to establish and maintain a population of coho and chinook salmon in Lake Erie.

A study of water quality and fish populations in the Pennsylvania waters of Lake Erie.

An evaluation of the feasibility of rearing channel catfish in vertical units.

An evaluation of the potential of vertical units in series as trout rearing units.

Publications

Measuring respiration rates of Myxosoma cerebralis spores:
James M. McKinney and Arthur D. Bradford.

Trout culture in vertical units: Keen Buss, Delano R. Graff and Edward R. Miller.

These publications are available from the Benner Spring Fish Research Station, R. D. No. 1, Box 200-C, Bellefonte, Pennsylvania 16823.

U. S. Fish and Wildlife Service

Lamar National Fish Hatchery

Mr. Joseph Valentine is attending the long course in Fish Pathology at the Eastern Fish Disease Laboratory, Leetown, West Virginia.

Mr. Robert Shaver is attending the cold-water fish husbandry course at Spearfish, South Dakota.

Division of Fishery Services

Mr. Jerry Springer is attending the long course in Fish Pathology at the Eastern Fish Disease Laboratory, Leetown, West Virginia.

East Stroudsburg State College

Several studies have been initiated on Hidden Lake, a small, shallow lake which is part of the new Delaware Water Gap National Recreation Area. Four graduate students are involved in this program and the topics include: primary production, eutrophication, insect taxonomy and ecology, the ecology of stunting in pan fishes, and the effect of introducing chain pickerel.

Penn State University

Donald Hales, former assistant unit leader of the Pennsylvania Cooperative Fishery Unit and first president of the Central Pennsylvania Chapter of the American Fisheries Society, has accepted an advancement as unit leader of the South Dakota Cooperative Fishery Unit at Brookings, South Dakota. Bob Raleigh, who received his doctorate at the Idaho Cooperative Fishery Unit and has been an employee of the Bureau of Commercial Fisheries, Montlake Laboratory in Seattle, Washington, transferred to the assistant unit leader position. Dr. Raleigh has worked on the commercial fisheries of both sea coasts, but the major emphasis of his past work has been with anadromous fish. These studies have taken him to Yellowstone Lake, Hells Canyon area of Idaho, coast of Washington and the Karluk Lake area of Alaska.

Ed Cooper was recently advanced to President-Elect of the American Fisheries Society. He is now retiring as President of the American Institute of Fishery Research Biologists.

Attempts are still being made to obtain funds for an aquatic research facility at the University's Stone Valley Lake. Recently, more space was provided us in an underground nuclear accelerator

building presently not being used by the Physics Department. What was that about this being the atomic age! Ecology is In.

With support from the Federal Water Quality Administration, Ed Cooper has obtained over 1,200 samples of fish from various locations throughout the State. His data are being computerized to relate species, their abundance, and their location with respect to pH, total alkalinity, total acidity, total sulfate and conductivity for each site of collection.

With F.W.Q.A. funding Bob Butler and his students continue studies of behavioral response of fish to cover. Baselines of this type of behavior were established for three species of fish: long-nose dace, blacknose dace and slimy sculpin. From the high observed use of cover by slimy sculpins and longnose dace, it appears that both species may be useful as test animals to bioassay chronic toxicity of acid waters. It has been found that the smallmouth bass shows a negative gradient of use of cover as pH drops from 7.0 to 4.0.

William Kimmel completed his master's work on the sensitivity of selected insect species to depressed levels of pH. Mortalities were insignificant for all species exposed for four days to pH levels from 6.5 to near 4.0. The ninety-six hour TLM values ranged from pH 3.31 for the most sensitive insects, Stenonema sp. to 1.72 for the most tolerant insects, Nigronia fasciata. Sensitivity appeared to increase during ecdysis for all species. Mr. Kimmel is continuing his graduate work at Penn State University.

Jim Van Gundy completed his master's study on abundance and distribution of some immature aquatic insect species in a stream receiving oil field waste waters. He found species diversity indices very low, most often zero, in the area of oil field waste discharges. The indices indicated recovery downstream where oil field effluent had become diluted. He found in TLM studies that the high salinities were not an important aspect of mortality and, therefore, suspected volatile substances to be contributing significantly to the mortality near the point of discharge. Jim is continuing his doctoral studies at the University of Utah.

Publications

McLaren, James and Robert Butler. 1970. The Spruce Creek catch-and-release study. Trout Unlimited, winter/vol. 11(1):18-19 and 29.

Cooper, Edwin L. 1970. Management of trout streams, p. 153-163.

In: A Century of Fisheries in North America, Ed. Norman G. Benson. American Fisheries Society, Special Publ. No. 7, 330 p.

RHODE ISLAND

Rhode Island Department of Natural Resources Marine Fisheries Section

Important Projects

- (1) Oysters - completed five year study on rock rearing of oysters; with bottom reared animals as comparison. (Report available).
 - (a) Continued monitoring of oyster setting area to determine when sets occur and conditions influencing oyster setting.
 - (b) Stocking of oysters in selected areas to determine growth, survival and setting potential.
- (2) Bay Scallops - stocking of scallops in selected areas to determine growth, survival and setting potential.
 - (a) Laboratory experiments to determine growth and survival.
 - (b) Planning of seed scallop experiments using hatchery stock.
- (3) Quahaugs - transplanting polluted quahaugs to clean areas to deperate and offer shellfishermen a winter harvest.
 - (a) Planting of hatchery set quahaugs in natural areas to determine growth and survival.
 - (b) Laboratory experiments on seed quahaugs to determine growth and survival in different bottom types.
 - (c) Completed report on 1969 dredge season in the West Passage.
- (4) Sea Scallops - completed report on meat yield and management recommendations for the sea scallop in Narragansett Bay.
- (5) Trout - began preliminary studies on adapting hatchery strains of trout to sea water.
- (6) Scup - began tagging juvenile scup to determine where Narragansett Bay scup enter the commercial fishery.

University of Rhode Island, Kingston
Graduate School of Oceanography

Dr. Saul B. Saila is on leave for one year from U. R. I. and is working for the UNESCO Headquarters in Paris. The part of UNESCO that Dr. Saila is associated with is the IOC Intergovernmental Oceanographic Commission. The two projects that he is chiefly involved with are: (1) Marine pollution and (2) LEPOR - Long Range and Expanded Program for Oceanic Research. This is a ten year international program. Dr. Saila's term will continue through June 30, 1971.

U. S. Department of Health, Education and Welfare
Environmental Control Administration
Northeastern Water Hygiene Laboratory

Virus in Shellfish

The serenity of eating shellfish was again disturbed by an outbreak of infectious hepatitis in Sweden, 1965. Roos described this incident of 119 cases from consumption of European oysters. Several similar outbreaks were reported in this country during this present decade: 84 cases from American oysters, and 922 cases due to the hard shell clam. Recently, Koff et al described 34 sporadic cases of hepatitis in the Boston area resulting from the consumption of shellfish including steamed soft shell clams. The number of shellfish-associated hepatitis cases is small when compared with the total incidence. Investigation of this problem and the development of measure(s) to eradicate such incidences are important because:

- (a) The vector has been identified, thus authorities can no longer condone distributing a commodity of such a health hazard to the public.
- (b) The number of unreported and secondary cases may also be considerable.
- (c) Transmission of other viruses is feasible thus producing additional health hazards.

A considerable amount of experimental data concerned with virus and shellfish has been accumulated from several marine laboratories. Conclusions drawn from these studies are in general agreement. Considerable light has been shed on the magnitude of this problem, and there is some indication that it is possible to derive effective measures that can minimize it. The concensus is that 'depuration' will most likely achieve this purpose.

While it now appears that there is some promise on the horizon for resolving this particular problem, new information has emerged to indicate that shellfish are becoming polluted with toxic chemicals. Indeed, the shellfish industry has been hit hard by such man-made pollution. The total recovery of the industry must therefore rely upon the effort of the 1970s for cleaning up the total environment.

VERMONT

Vermont Fish and Game Department

Fisheries activities proceeded at a normal pace during the first half of this reporting period. The District Biologists were occupied during the winter months with routine laboratory and office duties, growth rate data and compilation of field records in preparation of project reports.

Field work was continued during the winter in collecting ice-fishing census data. The work was conducted relative to the program, begun experimental in 1966, of having an open season for ice-fishing in trout lakes. This included approximately 40 of the major trout lakes of 100 acres or more. Results to date have shown no adverse results or harmful exploitation of the resource.

At about the time that normal summer projects were getting underway, the mercury contamination of Lake Champlain game fish was discovered. This brought about an abrupt departure from scheduled activities, since each District Fisheries Biologist became responsible for collecting fish for mercury analysis from the waters of his District. Results indicated that contamination in greater or less degree was widespread, and even in some remote and high-elevation ponds the samples showed a significant concentration of mercury in the fish analyzed. It appears, however, that this contaminant is not restricted to Vermont waters, but probably occurs quite generally. The "mercury scare" has apparently had an effect on sport-fishing activities during the current season, and later tabulations may show that it has also affected license sales.

There is no indication, however, that sport fishing in Vermont faces a drastic revision, and it likewise appears that the setting of tolerance limits has unduly concerned many individuals. The situation cannot as yet be viewed in proper perspective, and we are probably witnessing only the first of what may be a significant member of areas to be explored in relation to the total environmental picture.

Fish Culture

Work has been completed at a major trout hatchery in changing from a gravity flow spring source to a deep-well pumping system water supply, and the plant has been further modernized by the construction of several out-door concrete raceways and concrete tanks within the hatchery building to replace wooden troughs.

A rearing station in the north-east part of the state has been phased out, and a new hatchery installation for that area is in the planning stage.

It is planned to develop rearing facilities for warm-water game fish including largemouth bass, smallmouth bass and northern pike. The current practice in warm-water management has involved the collection and transfer of fish from one body of water to another. This procedure has several unsatisfactory aspects, and a better source of warm-water fish for stocking would be desirable.

Personnel

There have been no changes in personnel of the Fisheries Division during the past year, and there are currently no position vacancies.

Several Department employees in locations bordering the Province of Quebec attended night school French classes during the winter, but no degree-granting convocations are in prospect as a result.

University of Vermont

A copy of the Lake Champlain Studies Center Bulletin is attached.

Lake Champlain Studies Center* Burlington

Lake Champlain Committee

The Lake Champlain Committee, co-chaired by William Cowles

*Information derived from Lake Champlain Studies Center Bulletin, Issue No. 7, June 1970.

representing Vermont and Lt. Gen. Bertrand T. Fay representing New York, is a citizen's organization interested in the welfare of Lake Champlain. It has a diverse membership including active and concerned young people. The committee has organized a body of volunteers to assist the research efforts of the University and the state agencies empowered with water pollution control.

At a recent meeting held at the University of Vermont, nearly 100 volunteers showed up to do what they could to help. As a result, volunteers have assigned themselves to the tasks of collecting rainfall samples in the basin for the measurement of daily precipitation patterns in the driest part of New England; to collect and convey to the university water samples from the numerous tributaries entering Lake Champlain, so that some measures of the nutrient budget of the lake might be obtained; to assist in local areas to observe currents by a variety of methods to provide some measure of the circulation patterns of the lake; and to help out with programing and in the laboratory and the office. None of these research efforts would be possible without the volunteer help of a large number of interested citizens.

The director of the Lake Center is not aware of any other situation where the citizens and the research personnel of a state university have joined to attempt such a project. The problems of logistics are tremendous but the promise of success is good. We offer our sincere appreciation for the good faith illustrated by these citizen actions.

Fish Contaminated with Mercury Found In Lake Champlain

A flurry of concern developed this week (June 10) when it was announced in Canada that certain fish from the Missisquoi Bay were found to contain levels of mercury higher than recommended by the health agency. The accepted limit is 0.5 ppm. The Walleye Pike contained 1.9 ppm of mercury. Bass, perch, and bluegills contained just below the assigned limit.

The source and extent of mercury in the lake is now known. State and federal agencies are appraising the situation. The regulatory service of UVM is becoming prepared to make analyses of water samples and tissues for mercury concentration should the need arise. The Lake Center has offered a large set of water samples collected during a recent broad lake synoptic to either the state or federal agency if they could use them to help in the study. The Lake Center will cooperate in whatever way it can in studying the condition of the lake water.

Research Notes

David Johnson, Department of Geology, completed a study of the distribution and composition of ferromanganese concretions in Lake Champlain last June. The nodules occur typically in shallow water and where sedimentation rates are low. In some areas they are found in a pure state, but generally they are mixed with a terrigenous matrix which comprises 90 percent or more of the sample. Many nodules reveal a concretionary structure. Chemical analyses have shown the average composition to be 10 percent manganese (MnO) and 40 percent iron (Fe_2O_3).

Richard Fillon, Department of Geology, completed a study of the Missisquoi Delta this winter. He concluded that most of the active delta building occurs during the spring. The rate of deltaic progradation is estimated to be as much as a quarter of a mile per hundred years. In the subsurface, cheniers and levee-tip sand bodies were found which revealed active delta building in the past. A series of deltas were recognized in the Missisquoi Valley which may have formed in the Champlain Sea.

John Sherman, Department of Geology, is working on Diatoms found in Lake Champlain cores. He plans to use them to study the lake history. John is presently at the Academy of Natural Sciences, Philadelphia, identifying diatom assemblages. Dr. Ruth Patrick is director of the academy. John will return to the University of Vermont this summer.

Dr. Allen Hunt, Department of Geology, will expand the area from which core samples have been taken from the lake. Until the present time, sampling has been concentrated in the Burlington area of the lake.

George Mercer, Department of Zoology, is examining the shore zone of the lake in detail to determine the nature of the plant and animal life in this area where land, water, and air meet.

Carl Pagel, Department of Zoology, is investigating the life in the deep water sediments of Lake Champlain. He is interested in their abundance and significance to the lake.

Ben Gregg, Department of Zoology, is examining the seasonal distributional characteristics of the nutrients in Malletts Bay.

Burton Bryan, Department of Zoology, is comparing the zooplankton population in Malletts Bay with populations in the open lake and the northeast arm of the lake. Since these three bodies

of water differ greatly, he will be interested to know how the micro-crustacea compare.

Russell Metcalf, Department of Zoology, is conducting a study of the variations of the populations and size features of the killifish (Fundulus sp.) in Lake Champlain.

The variation in lake levels is the subject of research being carried on by Dr. Richard N. Downer of the Civil Engineering Department. Daily lake levels at Burlington and Rouses Point have been computerized and are being studied for cycles, trends, minimums, maximums and other anomalies. Dr. Downer had also been spearheading the establishment of a weather station on an island in Lake Champlain. We welcome him to the Lake Center staff.

UVM Melosira Gains A Holding Tank

The research vessel UVM Melosira was outfitted this year with a holding tank in the head to alleviate any pollution of the lake it might be causing while it plies the waters of the lake to collect samples to evaluate the quality of the water. Installation of the tank had been postponed to assure compliance with pending regulations of both New York and Vermont.

The installation has provided a gain in the vessel's capabilities. The hole in the hull that previously provided the flushing of the head is now used as a source of lake water into the forward cabin. Lake water can now be piped in and monitored for a variety of measures as the vessel pursues its course.

Arrowhead Mountain Lake Survey

A sweeping survey of Arrowhead Mountain Lake was made on April 25, 1970 by the members of Zoology 236 (E. B. Henson's fresh water biology class) under the direction of Carl Pagel, Laboratory Instructor. The lake is located in Milton, Vermont. The survey culminated in a 110 page report which includes a section of the history of the lake, watershed characteristics, and basic limnological observations. The class was joined by Jon Anderson, Fisheries Biologist of the Vermont Fish and Game Department, and Jim Morse, Aquatic Biologist, State Water Resources Department. This lake, which was created in 1937 by impounding the Lamoille River in Milton Village, has an area of 826 acres and a maximum depth of 33 feet. Copies of the report have been distributed to members of the class and certain offices. Abstracts may be obtained from the Lake Champlain Studies Center or from Carl Pagel.

Investigations of Reefs in Lake Champlain

A cooperative investigation of reefs existing in Lake Champlain is planned by A. S. Hunt of Geology and E. B. Henson of Zoology. These reefs are shallow (less than 20 feet deep) rises in the lake. Some are obviously associated with islands in the lake while others appear to be isolated. The object of this venture is to obtain samples of the bedrock forming these reefs and to return them to the laboratory in in situ orientation so that continuity between the geology of the Vermont and New sides of the lake can be made. The biological interest is to ascertain what species of invertebrates inhabit these reefs that are separated from the mainland by several miles. A pair of scuba divers is being oriented to do the bi-disciplined collecting of the samples.

AUFWUCHS

Dr. Donald B. Johnstone, who edited the first six issues of this bulletin, was recently appointed Dean of the Graduate College during the interim of the absence of Dean William McMillan who is serving a two-year leave of absence abroad.

Dr. Philip Cook, Department of Botany, has been examining the algae populations of Lake Champlain for the past few years. He is now on a sabbatical tour of New Zealand and Australia. Before going to the southern hemisphere, he spent some time at the University of California to conduct research. He is becoming familiar with research being done on the desmids in other parts of the world and will return this month.

Dr. Milton Potash was appointed to serve on the advisory committee for Governor Davis' Environmental Control Commission.

The Lake Center was awarded approximately \$2,400. to contribute to the development of a communications system for the lake research. This was awarded by the Research Corporation of America through the former Vice President Clinton Cook. A matching fund proposal was submitted to the Office of Water Resources Research. The communications system will provide oral communication between the several research vessels on the lake and the office and it will make it possible to relay physical and chemical measurements from remote locations to the Lake Center office.

Dr. Milton Potash served as faculty advisor for Student Action Committee for Earth Day Activities on April 22.

Drs. Hunt, Potash, and Henson attended the 13th Conference of Great Lakes Research held in Buffalo, New York in April.

Stimulated by the possibility of nuclear power plant being constructed on the shores of Lake Champlain, and prodded by Vermont Governor Davis and Senator Aiken, the Atomic Energy Commission held an open information hearing on the University campus this past winter. The general hearing was preceded by a morning of concurrent lectures on specific topics. All events were well attended. This was the first time the AEC agreed to confront the public at an open hearing, and it was generally agreed that the meeting was valuable.

Degrees Granted

Richard H. Fillin, M. S. The sedimentation and recent geologic history of the Missisquoi Delta.

Louis Enos Sage, M. S. A comparative study of the vertical migration of crustacean zooplankton under three thermal water column conditions.

Peter H. Townsend, M. S. A study of heavy mineral dispersal from the AuSable and Lamoille Rivers, Lake Champlain.

John Howard Vibber, M. S. A study of the density, distribution, and phenotypic variation of a population of Unionid mussels in Malletts Bay, Vermont.

Publications

An unusual new species of Draparnaldia from Lake Champlain. Cook, P. W., 1969. Jour. Phycology. 6(1):62-67.

Activation of the ephippial egg of Daphnia pulex. Davison, John, 1969. Jour. Gen. Physiology 53:562-575.

Distribution of Dolichodorus heterocephalus (Nematoda) in the littoral zone of Lake Champlain. Fisher, Kenneth D. and Gregory Hugo, 1969. Limnol. and Oceanogr. 14(4):617-620.

Lake Champlain in relation to regional water supply. Henson, E. B., and M. Potash, 1969. Proc. 12th Conf. Grt. Lakes Res., Internat. Assoc. Great Lakes Res.:441-448.

Isolation of Azotobacter insignis from fresh water. Johnstone, D. B., 1967. Ecology 48(4):671-672.

Lakeshore land use controls. Sargent, Frederic O., and William H. Gingham, 1969. M. P. 57, Vermont Agr. Exper. Sta., U. of Vt.

Other Agencies

We are continuing with cooperative projects with the New York Conservation Department in cold-water fisheries management of Lake Champlain, curtailed at the present time due to the mercury problem.

Cooperative activities are also continuing with personnel of the Fish and Wildlife Service stationed at the Montpelier office of the Sport Fisheries and Wildlife Fishery Service Bureau. This work has chiefly involved fish population inventory and collections for mercury sampling in waters of the Green Mountain National Forest.

We are also involved with the Department of Water Resources in activities pertaining to construction of dams, diversion of water from streams or relocation of channels, pollution involving fish-kills and other related matters.

Bureau of Sport Fish and Wildlife, Division of Federal Aid

Most of the activities of the fisheries section of the Research and Management Division are carried on within the D-J Federal Aid to Fisheries program, chiefly under the Fisheries Survey and Inventory project, but including also a Development Project within which jobs such as reclamation and stocking of warm-water fishes are included.

WEST VIRGINIA

Department of Natural Resources Division of Wildlife Resources

Personnel News

Two additions to the staff of fishery biologists are Frank Jernejcic and Dan Kimball. Frank was born and raised in Cleveland, Ohio, and received his BS from West Virginia University in 1967. He then attended Iowa State University at Ames, receiving his MS in Fisheries Biology in 1969. His thesis concerned prey selectivity of Clear Lake walleyes. Frank is District I Fishery Biologist at Fairmont.

Dan Kimball received his BS in forestry (1964) and MS in zoology (1966) from the University of New Hampshire. He expects to complete work on his Ph.D. in Fishery Biology from Utah State University in late 1970. Dan has held NASA and NSF Fellowships, and is a member of Sigma Xi. His dissertation concerns food con-

sumption by brown trout and mountain whitefish in a mountain stream. The research was funded by AEC. Dan, who is a competent statistician and programmer, will be working in the Division's new Biometrics Section, primarily with fishery problems.

Bob Sumner, District IV Fishery Biologist, received his MS from VPI on June 6, 1970. Bob is one of several biologists attending school to work in an advanced degree while in the employment of the Department. His thesis, Water Quality and Productivity Changes Associated with the Liming of a Soft Water Lake, evaluated data collected in one of our D-J projects.

Three other fishery biologists — Ray Menendez, Gerald Lewis, and Don Phares—continue work towards their MS degrees. Ray and Gerald should receive theirs in early 1971

Bob Miles organized the first annual awards banquet of the West Virginia Husky Musky Club, held in Parkersburg on April 4, 1970. Fifty-nine sportsmen including club members, their guests, and personnel of the Division of Wildlife Resources were in attendance. Club officers were elected at a business meeting held prior to the banquet. Dave Robinson, Assistant Chief of the Division, presented club members with Husky Musky Club Membership Certificates. Special certificates were given to members who had caught a musky at least 40 inches long.

A number of appointments have been made in the fish section of the Division of Wildlife Resources. They include Roger Schoumacher as Supervisor of Fishery Research, Bert Pierce as Leader of Reservoir Research, Ray Menendez as Leader of Coldwater Research, and Bob Ross as Staff Assistant to Dave Robinson, Assistant Chief, in Charleston. In addition, Jan Riffe has been appointed Supervisor of the new Biometrics Section, which will provide statistical assistance and computer service to game and fish biologists.

Other News

Progress continues on Division planning efforts. Close contact has been maintained with planners in the State of Maine, who are developing a complex computerized system for storage and retrieval of information regarding land use and other data useful to natural resources planners. Jan Riffe and Bill Santonas have attended numerous meetings with the Maine staff which is headed by Don Christie.

West Virginia will host the Tri-State Fishery Conference in February, 1971. This annual conference features papers, panels and informal discussions of fishery problems in W. Virginia, Kentucky, Ohio, and Virginia. (It's interesting to note that these states

represent three AFS Divisions—Northeastern, North-Central, and Southern.) The 1970 meeting was held in Roanoke, Virginia.

Also scheduled for '71 is a symposium on fish kill investigations, diagnosis, etc., sponsored by FWQA. The symposium will be held in Cincinnati.

Introduction of striped bass in the Ohio River continued. Our most successful hatchery efforts to date occurred this year—we raised and stocked over 36,000 fingerlings. Bernie Dowler is in charge of striped bass investigations.

West Virginia University, Morgantown

Arnold Benson reports that recent graduates from the Department of Biology were:

Frank L. Davido, MS, 1970. Thesis: Age and growth of pumpkinseed and bluegill sunfish related to acid mine-water pollution. Frank is currently with the Department of Agriculture in Washington.

Bruce K. Redd, Ph.D., 1970. Dissertation: Growth of the brown bullhead, Ictalurus nebulosis (Le Sueur), related to acid mine-water pollution. Bruce is teaching at Alderson-Broadus College, Phillippi, W. Virginia.

William W. Sutton, Ph.D., 1970. Dissertation: The effects of thyrocalcitonin and the environment on calcium and phosphate metabolism in the brown bullhead. Bill is currently serving in the U. S. Army.

Some students currently engaged in graduate research include William J. Pegg, a Ph.D. candidate working on fish metabolism in relation to pH and acidity, and Bruce E. Sprague, an MS candidate working on tolerance limits of the brown bullhead in relation to pH and acidity.

Field work was completed this summer on growth studies of the brown bullhead, including a comparison of populations from sections of the Tygart River not polluted with acid, and sections of the acid-polluted Monongahela River.

U. S. Fish and Wildlife Service
Fishery Services, Elkins

Charles C. Burner transferred to the Central States Fishery

Station, Princeton, Indiana, to take charge of the strip-mine project. George E. Hanson, a former West Virginia fishery biologist, has replaced Chuck as Project Leader at Elins. George first came to West Virginia as a fishery biologist with the State in 1957 after receiving his B.S. at the University of Massachusetts. In 1966, he moved to the Bureau of Outdoor Recreation in Atlanta, where he worked on the National Surface Mine Study and water resources projects. For the past three years George has been working on farm pond investigations for the USFWS at the Central States Fishery Station, Princeton, Indiana.

Eastern Fish Disease Laboratory, Kearneysville

Dr. Stanislas Francis Snieszko, Director of the Eastern Fish Disease Laboratory, was the recipient of the second Award of Excellence of the American Fisheries Society. The award—a certificate, medal, and honorarium of \$1,000—was presented to Dr. Snieszko at the 100th meeting of the AFS in New York City by President Brown.

Born in Poland, he took his doctorate in bacteriology and chemistry in his native country, after which he studied and worked at the University of Wisconsin, in Italy and in England. In 1939, he was appointed visiting research bacteriologist at the University of Maine. Five years later he became a naturalized citizen of the United States and a captain in the Army Chemical Corps.

Following his military service, he joined the Bureau of Sport Fisheries and Wildlife, as a research worker in fish diseases.

To catalog all Dr. Snieszko's accomplishments would require an inordinately long time. He has been the most productive research worker in his field in the United States, and perhaps in the world. His publications comprise an impressive bibliography of some 110 entries—several in Polish, French, and German. The latest is the book, A Symposium on the Diseases of Fishes and Shellfishes, which he edited. The book was published by the Society to coincide with the centennial meeting.

Dr. Snieszko developed the first organized, systematic disease diagnostic service for fish culturists. He reduced to non-scientific terminology the extensive technical literature on fish disease identification, treatment, and control, and made this information available to hatchery workers in a series of leaflets and diagnostic charts.

He organized the first in-service training schools on fish diseases and parasites. As a result, full-length as well as short courses on

diagnosis and treatment have rounded out the training of many hatchery workers.

In 1968, he received the Distinguished Service Award of the U. S. Department of the Interior for his research accomplishments in resource conservation and management. Earlier this year he was the recipient of the Wildlife Disease Association's award for outstanding contributions to fish disease research.

Congratulations to Dr. Snieszko!

ATTENTION ALL MEMBERS

1971 Resolutions

Your Resolutions Committee, currently chaired by Charles F. Thoits, III, is actively soliciting suggestions for resolutions. Any ideas you feel worthy of consideration are welcome. It would be helpful if your thoughts could be roughly drafted into resolution form prior to submission. Kindly send all suggestions directly to:

Charles F. Thoits, III
State of New Hampshire
Fish and Game Department
34 Bridge Street
Concord, New Hampshire 03301

EDITOR'S NOTE

I sincerely wish to thank the following persons who served as area reporters* or cooperators** during 1970. Without their contributions, this newsletter would not have been possible:

Connecticut: Richard L. Hames*
Robert A. Jones* (River Ecology Symposium)
Barton C. Marcy, Jr.* (Southern New England
Chapter)

Delaware: Frederick C. Bonner*

Maine: Roger A. Marin*
George J. Ridgway**

Richard W. Hatch**
James D. McCleave**

Massachusetts: Russell A. Cookingham*
Louis H. Carufel*
Paul L. Hooper**
Roger J. Reed* (Southern New England Chapter)

New Brunswick: Paul F. Elson*

Newfoundland: Richard E. Cutting*

New Hampshire: Charles F. Thoits, III*
Ronald E. Towne**

New Jersey: Frank E. Bolton*
David G. Deuel*

New York: Clarence A. Carlson*
Gerard C. LeTendre**
Albert C. Jensen**
John C. Poole**
Carle E. Parker**
Maurice B. Otis* (New York Chapter)
Kenneth F. Wich, Jr.* (New York Chapter)

Nova Scotia: Colin E. Wykes*
H. E. Power**
C. M. Curry**
J. S. MacPhail**
M. Wiles**

Ontario: Robert W. McCauley*
C. H. D. Clarke**
Walter A. Glooschenko**

Pennsylvania: Delano R. Graff*
Arthur D. Bradford*
William G. Kimmel* (Central Penn Chapter)

Rhode Island: Candace A. Oviatt*
Oscar C. Liu**

Vermont: Leonard C. Halnon*
Joh K. Anderson* (Warmwater Workshop)

West Virginia: Roger Schoumacher*

APOLOGIA

Because of the reporting procedures involved in compiling this newsletter, it is possible that the names of some persons who contributed to it do not appear among those listed above. To these individuals, I extend my sincere apologies for the oversight. Any and all omissions were completely unintentional

POST SCRIPT

I wish to express my thanks and appreciation to the entire membership for the privilege of serving as Secretary-Treasurer for 1970-71.

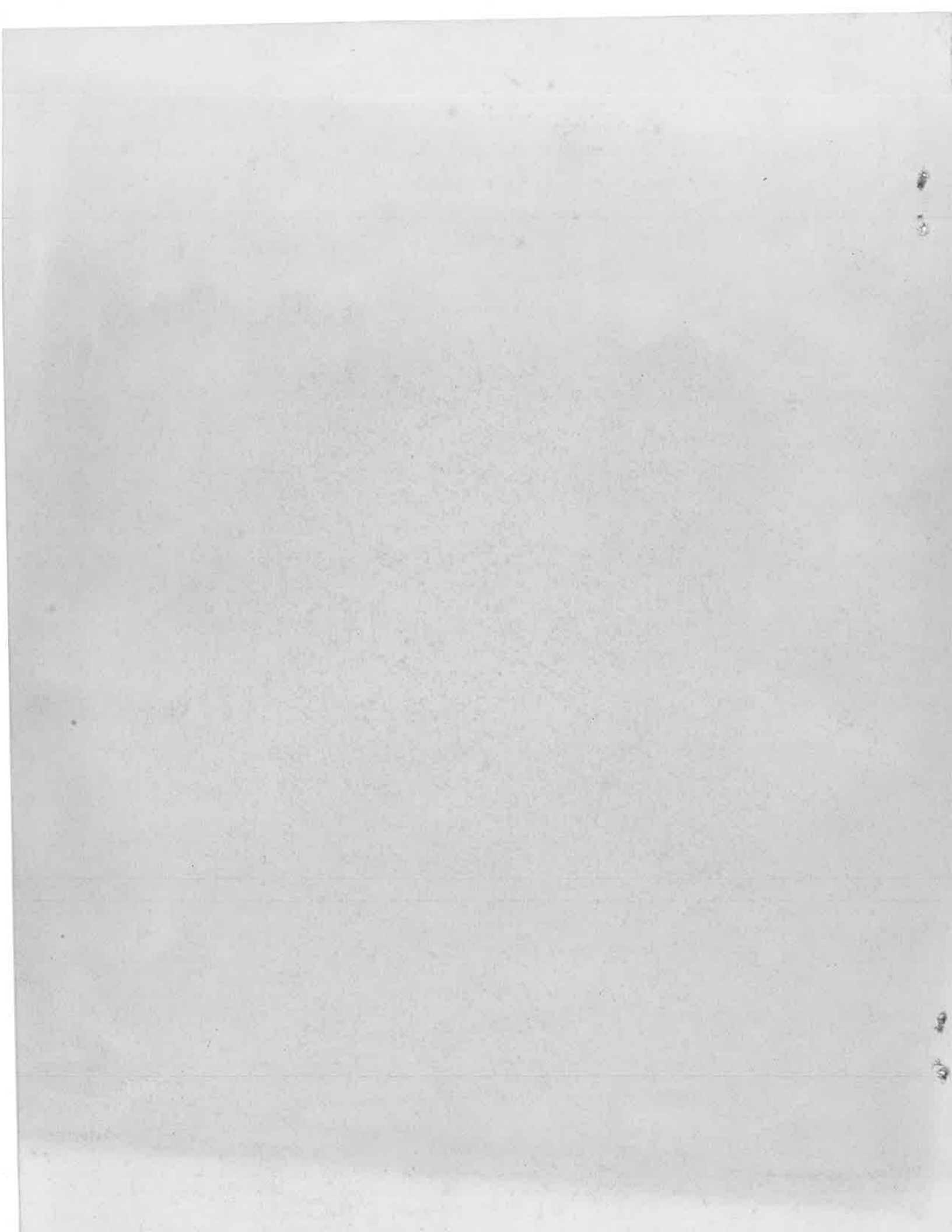
Sincerely,

Richard H. Schaefer

Richard H. Schaefer
Editor

0. 0

0. 0



Minutes of Annual Meeting
New York Chapter, American Fisheries Society
Syracuse, N.Y. - December 4, 1970

1. The meeting was called to order at 8 p.m. by President Paul Neth. A quorum was present. Mr. Colton Bridges, Vice President of the New England Chapter, was introduced. Dr. Robert Hutton was present during the day but could not stay for the business meeting. President Neth briefly summarized Chapter activities during the year and thanked committeemen and all members for their participation and support.

2. Adoption of the minutes of the December 4, 1969 meeting was moved by James Lindsey and passed.

3. Secretary-Treasurer Kenneth Wich presented his report. No communications were received during the year other than replies from two state legislators in response to the pesticide resolution adopted at the 1969 meeting. Both favored the resolution. Balance on hand as of December 4, 1970 was \$360.12. The report was approved by the membership. Walter Keller, Chairman of the Audit Committee, reported that the Treasurer's records were examined and found to be in order.

4. Report of Committees

a. Howard Loeb, Chairman of the Program Committee, credited many people for the success of the 1970 conference. Special thanks were extended to James Forbes, Program Chairman for the Wildlife Society, and Dick Dumas who handled arrangements.

b. Bob Griffiths, Chairman of the Membership Committee, reported that membership had increased from 101 in 1969 to 114 this year. The Committee had been relatively inactive because of the bylaws question over membership categories.

c. Steve Simpkins reported that the Professional Standards Committee had received the following contributions toward production of the career film: Trout Unlimited - \$100; Sport Fishing Institute - \$500 and our Chapter - \$200. The New York Conservation Council and American Game Association has pledged \$1700 once the tax exempt status of the Chapter is clarified. A prospectus and preliminary film treatment has been developed and specific film sequences discussed. Filming should start in Spring 1971 and be completed and the film ready for release by Spring 1972. The parent Society may also contribute to the film once the problem of determining an equitable way of providing financial support for Chapter activities is solved.

d. Dick Schaeffer, Chairman of the Resolutions Committee, introduced two resolutions. Number 1, urging the Great Lakes Fishery Commission to make every effort to obtain funds to treat Lake Ontario tributaries for lamprey control during federal fiscal year 1972, was adopted as amended. The second, calling for the appointment of an ad hoc committee to investigate the total environmental effects of chemicals used by the Department of Environmental Conservation, was debated at length. Opposition centered around the theme that the Department should study this problem rather than the Chapter. A motion was made and seconded to commit this resolution for further study and presentation at the next annual meeting. Motion was approved.

e. John Gould reported that his ad hoc Licensing Committee had met with the Education Department and confirmed that a legislative sponsor for any licensing attempt must be found. The committee felt professional licensing was of particular importance now that licensed engineers are part of the new Department. They recommended the Committee be continued to develop a specific proposal.

f. Eli Dietsch, Chairman of the Bylaws Committee, reported that the parent Society had rejected that portion of the bylaws establishing an "affiliate member" category. After reviewing possible courses of action, he recommended the next Committee canvass Chapters nationwide for their views and explore the mechanism for amending the Society Constitution to allow this membership category in Chapters. Steve Simkins introduced the following motion as amended: "The New York Chapter of the American Fisheries Society appoint a committee to study the feasibility of permitting individuals to join the Chapters as affiliate members with voting privileges without their having to be members of the American Fisheries Society." Motion approved with one negative vote.

g. Don Rasko, Chairman of the Awards Committee, submitted a written report with a number of recommendations to initiate an Awards program. A motion was made and approved to accept these recommendations.

5. Old Business - Al Ripper reviewed the pre-Centennial field trip held for Fisheries Cooperative Unit personnel. The trip was well received by the eight attendees from five Units.

6. New Business - John Gould reviewed the upcoming state Natural Resources Conference. Congressman John Dingell will be keystone speaker; this will be an opinion session, not a technical conference.

7. John Rorney, Chairman of the Nominating Committee, presented the following slate: President - Robert Griffiths; Vice President - Howard Loeb; Secretary-Treasurer - Martin Pfeiffer. There being no nominations from the floor, it was moved and approved that one ballot be cast for this slate.

8. William Bentley moved that some token of appreciation be given in appreciation to past Presidents. Motion approved.

9. After closing remarks by newly elected President Griffiths, the meeting was adjourned at 10:30 p.m.

Respectfully submitted,

Kenneth Wich, Secretary-Treasurer



ACCOUNT STATEMENT

NY CHAPTER OF AMERICAN
FISHERIES SOCIETY
CLIFFORD E CREECH TREAS
BOX 1169
CORTLAND NY 13045

Handwritten initials

ACCOUNT NUMBER
304-00224-0
STATEMENT DATE
01/09/70

PREVIOUS BALANCE	919.72	AMOUNT OF DEPOSITS	00	AMOUNT OF CHECKS	919.72	NO. OF CHECKS	3	SERVICE CHARGE	00	STATEMENT BALANCE	00
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DATE	CHECKS, AUTOMATIC PAYMENTS, AND OTHER CHARGES	DEPOSITS AND ADVANCES	BALANCE
12/12	MEMO STATEMENT - CHECKS ENCLOSED		863.86
12/15			00
12/29			00

ALL-IN-ONE SAVINGS ACCOUNT
BALANCE

STATEMENT ISSUED QUARTERLY
ALL-IN-ONE CHRISTMAS CLUB
BALANCE

A FINANCE CHARGE ON OUTSTANDING CASH LOAN BALANCES IS COMPUTED AT A PERIODIC RATE OF % PER DAY. THE AVERAGE DAILY BALANCE SHOWN BELOW IS MULTIPLIED BY THE NUMBER OF DAYS IN THE BILLING CYCLE AND THE PERIODIC RATE IS APPLIED TO THE PRODUCT TO DETERMINE THE AMOUNT OF THE FINANCE CHARGE. THE FINANCE CHARGE REPRESENTS AN ANNUAL PERCENTAGE RATE OF %.

PREVIOUS BALANCE ADVANCES THIS PERIOD PAYMENTS THIS PERIOD NEW BALANCE

AVERAGE DAILY BALANCE AVAILABLE RESERVE LIFE INSURANCE INTEREST DATE TO BE PAID

MONTHLY PRINCIPAL DUE SICKNESS INSURANCE ACCIDENT AND FINANCE CHARGE MONTHLY TOTAL DUE

- CA = CASH LOAN ADVANCE
- CC = CERTIFIED CHECK
- CP = CASH LOAN PAYMENT
- DR = DEPOSIT REVERSAL
- LP = INSTALMENT LOAN PAYMENT
- LS = LISTED CHECKS
- MC = MEMO CHECKS
- MD = MEMO DEPOSIT
- MP = MORTGAGE PAYMENTS

- OD = OVERDRAFT
- RT = RETURNED CHECK
- SC = SERVICE CHARGE

- SD = SAVINGS DEPOSIT
- SF = SAFE DEPOSIT PAYMENT
- XP = CHRISTMAS CLUB

SEE FORM ON REVERSE SIDE TO HELP YOU BALANCE YOUR ACCOUNT.

THE FIRST NATIONAL BANK OF CORTLAND
FIRST NATIONAL BANK OF CORTLAND
CORTLAND, NEW YORK

FRIDAY, DECEMBER 4

12:00 A.M. - 1:30 P. M.
Registration

1:30 P. M.
Welcome by Dr. Bruce Wilkins, President of the N.Y.S. Chapter of The Wildlife Society

1:35 - 2:35 P. M.

Panel Discussion:

Some Uses of Computers in Fisheries and Wildlife

Moderator:

JAMES E. FORBES

U. S. Bureau of Sport Fisheries and Wildlife

Panelists:

Data Processing, Past, Present, and Future:

TOM MARTIN

IBM Applications Systems Center, Syracuse, N. Y.

A Software System for the Analysis of Animal

Position and Activity Data as Derived from

Telemetry:

DR. DONALD SINIFF

University of Minnesota

Application of Computer Technology to Environmental Planning and Management:

MICHAEL J. MAHONEY

Computer Applications, Inc., Albany, N.Y.

2:35 - 3:05 P. M.

Coffee break

3:05 - 4:30 P. M.

Panel discussion resumes, including questions and commentary from the floor.

Panelists:

Computer Applications in Fishery Work:

DR. JOEL S. O'CONNOR

Brookhaven National Laboratory, Upton, N.Y.

Massachusetts Trout Allocation Program:

COLTON H. BRIDGES

Massachusetts Division of Fisheries and Game



Computers are used everywhere to store data, sort data, run systems, and in general, to do the dog work of keeping tabs and forming conclusions from masses of facts.

Computer-using organizations are often ahead of the game because they have the stored facts on tap to be used when needed. In plain language, retrieval of data from a mass of paper in a conventional file is, by comparison, a long, costly, laborious process.

Although computers are now used in fish and game work, the surface has only been scratched. The papers and demonstrations to be presented are intended to be a partial description of such use, leading to a better understanding of computers for all of us.

Your participation is invited.



4:30 - 6:00 P. M.

Late registration

5:00 - 6:00 P. M.

Hospitality hour sponsored by Utica Club

6:00 - 7:00 P. M.

Hot buffet supper, Gotham Motor Inn

8:00 - 10:00 P. M.

Separate business meetings



SATURDAY, DECEMBER 5

9:00 A. M. - 12:55 P. M.

Technical session involving 8 computer demonstrations. The audience will be divided into 8 groups which will separately participate in each demonstration.

Moderator:

HOWARD A. LOEB

N. Y. S. Department of Environmental Conservation

Demonstrators:

Calculation of Changes in Carrying Capacity Based on Animal Requirements and Range Supply:

AARON N. MOEN

Cornell University

Demonstration will be on a desk-top "Wang 700"

Simulated Bear Population Dynamics:

GENE McCAFFREY

N. Y. S. Department of Environmental Conservation

Demonstration will be on a desk-top "Wang 380"

Estimating Survival Rates from a Sequence of "Annual" Releases and Recapture of Marked Fish:

WILLIAM D. YOUNGS

Cornell University

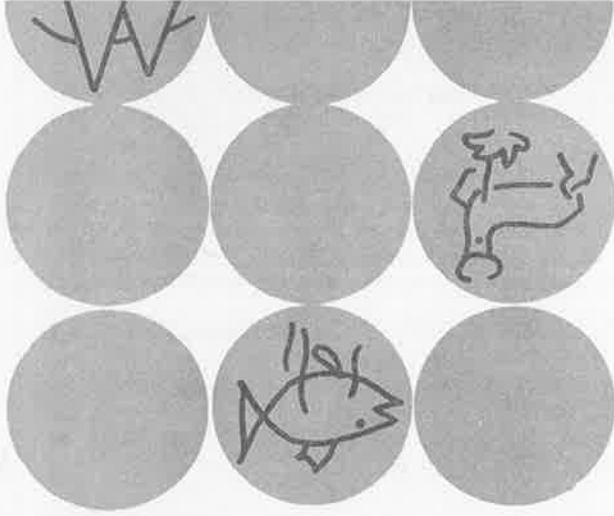
Demonstration will be on a terminal at the Inn via a tie-line to an IBM computer at Cornell.

Joint Meeting

CONFERENCE ON COMPUTERS

DECEMBER 4-5, 1970

Gotham Motor Inn
Thruway Exit 35, Syracuse, N. Y.



PROGRAM COMMITTEES:

The Fisheries Society
H. Loeb, Chairman
G. Danskin
H. Doig
R. Fieldhouse
B. Griffin
R. Werner

The Wildlife Society
J. Forbes, Chairman
M. Alexander
E. Fried
R. Meyers
M. Mobbs
P. Sauer



EQUIPMENT SUPPLIERS FOR THE DEMONSTRATIONS

and Natural

at the Inn via

Systems:

edham, Mass.
o analog and

ation:

via a tie-line

Biologists

ster, N. Y.
12 Laboratory

on for Trap

Environmental

IBM Applications Systems Center

New York Chapter, American Fisheries Society
 FINANCIAL REPORT
 December 4, 1970

Balance - December 4, 1969

Receipts: 1. 1969 Meeting Registration

2. 1970 Paid Membership (111 @ \$2.00)

\$ 434.36
 760.00
222.00
 \$ 1,416.36

Sub-total

Expenditures:

1. Gotham Motor Inn - 1969 Conference \$ 400.64
2. Travel Expenses, Roger Bider - 1969 Conference 72.00
3. NY Chapter Wildlife Society - Reimbursement for pro-rated share of 1969 Conference expenses 59.38
4. William Flick - Postage 3.60
5. Currier Press, Inc. - Letterheads, envelopes, cards 99.69
6. Kenneth Wich - Postcards, stamps 4.20
7. Aircraft Manufacturing - Label pins 100.00
8. Barkers, Inc. - Frame for Chapter Charter 1.53
9. Ziesentz Sons, Inc. - File box 5.10
10. Aquatic Science film - special fund 200.00
11. Howard Loeb - Postage for 1970 Conference 110.10

Sub-total

\$ 1,056.24

Balance - December 4, 1970

\$ 360.12

+ 800.00

\$ 1,160.12

(Special Reserve Fund)

Kenneth Wich
 Secretary-Treasurer

Kenneth Wich

New York Chapter, American Fisheries Society
FINANCIAL REPORT
 December 4, 1970

Balance - December 4, 1969

Receipts: 1. 1969 Meeting Registration

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11. Howard Loeb - Postage for 1970 Conference 110.10

\$ 1,056.24

Sub-total

Balance - December 4, 1970

\$ 360.12

Kenneth Wich
 Secretary-Treasurer

DEPARTMENT OF CONSERVATION

NEW YORK STATE COLLEGE OF AGRICULTURE

A CONTRACT COLLEGE OF THE STATE UNIVERSITY

CORNELL UNIVERSITY

ITHACA, NEW YORK

December 3, 1970

Mailing Address:

Fernow Hall, Cornell University
Ithaca, N. Y. 14850



FISHERY BIOLOGY
FORESTRY
NATURAL RESOURCES
WILDLIFE MANAGEMENT

Mr. Herman Forster
Box 84
Wellsville, New York

Dear Herrn:

Since we have not yet received a check from the Foundation in support of the careers film, I assume you are still pondering how to make the check out. You will recall we had some correspondence about this as you had intended to send it to Cornell.

I recently talked with one of our fiscal officers and he was of the opinion that it might complicate matters more taxwise even if we were able to transfer the contribution to the New York Chapter of the American Fisheries Society. Since the parent society of A. R. S. is now classified as a tax exempt organization, I can anticipate no problem insofar as your grant is concerned.

It is important that we get moving on this so I hope you can expedite drawing the check as soon as possible. It should be sent to the Secretary-Treasurer of the New York Chapter, American Fisheries Society, Mr. Kenneth Wich, New York State Department of Environmental Conservation, Wolf Road, Albany with a covering letter.

Sincerely yours,

Dwight A. Webster
Head of Department

DAW:cmw
cc: Fay Welch
Steve Simkins
Ken Wich

November 23, 1970

Dr. Robert F. Hutton
Executive Secretary
American Fisheries Society
Suite 1040, Washington Building
15th and New York Avenue, N.W.
Washington, D. C. 20005

Dear Bob:

I am pleased that you will be able to attend our upcoming computer conference and the Chapter business meeting. A copy of the formal program is enclosed.

Most of the members of the Executive and Bylaws Committees of the Chapter will be attending a Division staff meeting at the Gotham Inn on December 3. I will invite them to dine with us following the staff meeting which is scheduled to end at 5 P.M.

Reservations for a single room at the Gotham Inn, the nights of December 3 and 4, have been made in your name.

Sincerely yours,



Paul C. Neth, President
NY Chapter, American Fisheries Society

PCN/ja

Enc.

cc: Ken Wich ✓
Bill Flick
Robert Griffiths
Eli Dietsch
Robert Brewer

M E M O R A N D U M

April 9, 1970

TO: Robert Griffiths
Kenneth Mich
William Flick

RE: N.Y.C.A.F.S. Bylaws

Enclosed is a photocopy of a letter from Bob Hutton indicating that the AFS Executive Committee did not approve our proposed Bylaws. Also enclosed is a photocopy of the Bylaws showing changes made by Bob which he feels, if incorporated and approved by our members, would assure approval by the AFS Executive Committee.

It appears that we have a rather nasty problem to handle and one that we should thoroughly discuss at our next Executive Committee meeting. However, in the meantime, I would appreciate your studied opinions on the situation as well as possible options that we have to handle the problem.

Bill Dietach, Chairman of the Bylaws Committee has been apprised of the Parent Society's reaction and he and Bob Brewer will also be working on possible approaches.

Copies of your response should go to all members of our Executive Committee and to Bill.

I have enclosed a membership list in the event that you need it.

Paul G. Neth, President
New York Chapter, American
Fisheries Society



PCN/ja
cc: Bill Dietach

COPY

cc: Herm Forster
Paul Neth
Ken Wich

DAW:cmw

Dwight A. Webster
Head of Department

Sincerely yours,

I have asked Herm to have the check drawn in favor of the New York Chapter of the American Fisheries Society and presumably it will be sent either to me or to you for transmittal to the Chapter Secretary/Treasurer.

For your information, the full name of this foundation is the New York Conservation Council and American Game Association Foundation. This should appear in any acknowledgements of agencies or groups supporting the production of the film.

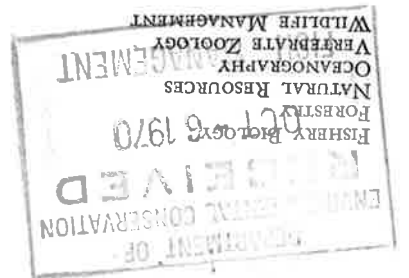
I assume that you will be notified directly, but Mr. Forster called today to say that the Foundation approved the \$ 1700 for the film on Careers in the Aquatic Sciences. This is very good news indeed. Herm Forster did say that one of their board members hoped that we could work in some thing about mercury in the film and I assured him that this could probably be done.

Dear Steve:

Mr. Stephen Simkins
Paul Smiths College
Paul Smiths, New York

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A CONTRACT COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY
ITHACA, NEW YORK
September 30, 1970

Mailing Address:
Fermow Hall, Cornell University
Ithaca, N. Y. 14850



COPY

RECEIVED
APR 28 1970
F. D. LITTLE
RESEARCH UNIT

RECEIVED
CONSERVATION DEPARTMENT
MAY 13 1970
FISH - MANAGEMENT

cc: R. P. VanGytenbeek
Richard Schaefer ✓

DAW:cmw

Dwight A. Webster
Head of Department

Sincerely yours,

We have received a check in the amount of \$ 100 from Trout Unlimited to support the "Aquatic Sciences Profession" movie project of the New York Chapter of the American Fisheries Society. I am sending the check to Secretary Treasurer Schaefer for deposit in the appropriate account.

Dear Steve:

Mr. Stephen Stinkins
Paul Smith's College
Paul Smiths, New York 12970

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

April 24, 1970

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

Mailing Address:
Remow Hall, Cornell University
Ithaca, N. Y. 14850

New York Chapter, American Fisheries Society

Executive Committee Meeting, November 20, 1970

A meeting of the Executive Committee was held in the Albany office of the Department of Environmental Conservation. President Paul Neth called the meeting to order at 1 p.m. In attendance for all or part of the meeting were Robert Griffiths, Kenneth Wich, Maurice Otis and Eli Dietsch.

The rejection of parts of the Chapter bylaws by the Parent Society was discussed in detail. It soon became obvious that many of the questions must be deferred until the Committee met with Bob Hutton prior to the Chapter meeting in December. It was decided that the chairman of the Bylaws Committee (Dietsch) would present the matter at the annual business meeting, lead the discussion and - depending on the action favored by the members - have revised bylaws ready for vote. President Neth would set the stage for this discussion in his introductory remarks opening the session.

The remainder of the meeting was spent reviewing publicity efforts and possibilities with the chairman of the Publicity Committee (Otis).

The meeting adjourned at 3 p.m.

Ken Wich
Secretary-Treasurer

M E M O R A N D U M

November 13, 1970

TO: Robert Griefke
Kenneth Wich
Howard Loeb
Bill Detsch

RE: Executive Committee Meeting

I'd like to call an Executive Committee meeting for Friday, November 20 at 1:30 P.M. to discuss a variety of topics prior to the annual meeting. Included will be bylaws, publicity, program and meeting details.

Meeting will be held in Room 522 at the Department of Environmental Conservation building on 50 Wolf Road. Let me know if you can't make it.

Paul C. Noth

Paul C. Noth
Principal Aquatic Biologist
Fish Research

PCN/ja

New York Chapter, American Fisheries Society

Executive Committee Meeting; May 14, 1970

A meeting of the Executive Committee was held in Saranac Lake on May 14. President Paul Neth called the meeting to order at 9 p.m. In attendance were Robert Griffiths, William Flick, Kenneth Wich and committee chairmen Steve Simpkins and Eli Dietsch.

Steve Simpkins reviewed the status of the career film project. Progress has been favorable, but slow. Trout Unlimited donated \$100; Sport Fishing Institute may contribute \$500 and the N.Y. State Council may participate. \$200 of Chapter funds were tentatively committed to this project pending further consideration by the Executive Committee. The Secretary-Treasurer will keep a separate "movie" account and handle bills received from the film committee.

Rejection of the Chapter bylaws by the parent society because of the provision for associate membership was discussed. The consensus was that this was unacceptable and possible courses of action were reviewed. The Bylaws Committee was instructed to prepare a resolution advocating associate memberships in Chapters for presentation to the parent society at the September Centennial meeting. The plan is to (a) canvass the membership for their opinion; (b) inform all sister Chapters, Bob Hutton and Frank Grice (President of Northeast Section) of our intentions and (c) submit the resolution to the Resolution Committee. President Neth charged Bob Griffiths with the responsibility for bringing non-members (about 40% of total Chapter membership) into the parent society.

Paul Neth reviewed progress of plans for the Natural Resource Conference and announced that John Gould has been appointed chairman of the program committee. He also announced that Division had tentatively approved employee participation in a Friday-Saturday joint meeting with the Wildlifers in December.

The meeting adjourned at 11 p.m.

Kenneth Wich
Secretary

New York Chapter, American Fisheries Society

Executive Committee Meeting; May 14, 1970

A meeting of the Executive Committee was held in Saranac Lake on May 14. President Paul Neth called the meeting to order at 9p.m. In attendance were Robert Griffiths, William Flick, Kenneth Wich and committee chairmen Steve Blomkins and Kil Dietrich.

Steve Blomkins reviewed the status of the career film project. Progress has been favorable, but slow. Trout Unlimited donated \$100; Sport Fishing Institute may contribute \$500 and the N.Y. State Council may participate. \$200 of Chapter funds were tentatively committed to this project pending further consideration by the Executive Committee. The Secretary-Treasurer will keep a separate "movie" account and handle bills received from the film committee.

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The meeting adjourned at 11 p.m.

Kenneth Wich
Secretary

PCN/1a

Paul G. Koch, President
New York Chapter, American
Fisheries Society

Paul G. Koch

If there are other problems that should be discussed, bring along about a quart's worth and we'll try to get them solved. I hope that you all can attend.

- 1. By-laws - appraisal of problem and what action should be taken
- 2. Film - Review by Steve Sinkins
- 3. National Resources Conference - review of second meeting and committee assignments

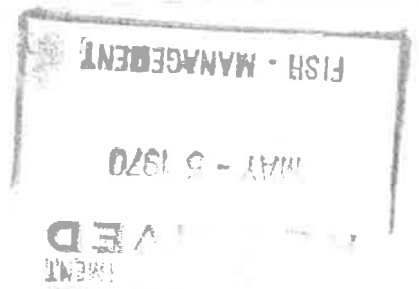
An Executive Committee meeting of the N.Y.G.A.F.S. will be held at the Lakeside Hotel in Saratoga Lake on Thursday, May 14 at 8:30 P.M. The following topics will be discussed:

RE: Executive Committee Meeting, N.Y.G.A.F.S.

TO: Robert Griffiths
 Kenneth Wich
 William Fick
 Eli Dietrich
 Steven Sinkins

May 5, 1970

MEMORANDUM



Ken

M E M O R A N D U M

April 28, 1970

TO: Daniel Plescia
RE: Reservations

Please make room reservations for Ken Wich and Eli Dietch at the Lakeside Motel for the night of May 14. A twin-bedded room is preferred.

Paul C. Neth
Federal Aid Coordinator - Fish

PCN/Js

New York Chapter, American Fisheries Society

Executive Committee Meeting; March 31, 1970

A meeting of the Executive Committee was held on March 31 in Warrensburg. The meeting was called to order at 3 p.m. by President Paul Neth. Also in attendance were Robert Griffiths, William Flick, Kenneth Wich and Howard Loeb, Chairman of the 1970 Program Committee.

Howard Loeb reviewed the activities of his committee and the tentative program for the December joint meeting with the Wildlife Society. The topic - computer technology in fish and wildlife - was approved with general agreement that it would have to be handled carefully to maintain interest.

After reviewing progress towards a state Natural Resources Conference, the Committee agreed (1) that the Chapter should participate in such a Conference; (2) that an early March 1971 meeting was acceptable and (3) the Chapter should proceed with plans for the annual joint meeting with Wildlife in December 1970.

Chapter representatives to Natural Resource Conference committees are: Steering - Paul Neth; Program - Bob Griffiths and Bob Van Wieg and Arrangements - Rob Greene.

The meeting adjourned at 5:30 p.m.

Kenneth Wich
Secretary

New York Chapter, American Fisheries Society

Executive Committee Meeting; March 31, 1970

A meeting of the Executive Committee was held on March 31 in Warrensburg. The meeting was called to order at 3 p.m. by President Paul Neth. Also in attendance were Robert Griffiths, William Plick, Kenneth Wich and Howard Loeb, Chairman of the 1970 Program Committee.

Howard Loeb reviewed the activities of his committee and the tentative program for the December joint meeting with the Wildlife Society. The topic - computer technology in fish and wildlife - was approved with general agreement that it would have to be handled carefully to maintain interest.

After reviewing progress towards a state Natural Resources Conference, the committee agreed (1) that the Chapter should participate in such a conference; (2) that an early March 1971 meeting was acceptable and (3) the Chapter should proceed with plans for the annual joint meeting with Wildlife in December 1970.

Chapter representatives to Natural Resource Conference and committees are: steering - Paul Neth; Program - Bob Griffiths and Bob Van Wieg and Arrangements - Bob Greene.

The meeting adjourned at 5:30 p.m.

Kenneth Wich
Secretary

January 13, 1970

Mr. Clayton Hardy
R.F.D. 1, Box 232a
Geneca Falls, New York 13148

Dear Clay:

I've inherited the treasurer's job for the New York Chapter of the Fisheries Society from Cliff Creech. Cliff tells me that the Wildlife Society still owes us for 150 of the plastic name tags used at the Syracuse meeting.

We purchased the tags from Payne Bros. Office Equip., Inc., 54 Main St., Cortland, N.Y. for \$9.00/100. Your bill then is \$13.50 plus 6% sales tax or a total of \$14.31. Let me know if you need a copy of the original bill and I'll xerox it. Thanks.

Sincerely,

Kenneth F. Wich
Assistant Supervisor,
Fish Management

KFW/ds

PAUL SMITH'S COLLEGE
PAUL SMITHS, NEW YORK 12970

April 10, 1970

To: Members, Professional Standards Committee
NY Chapter AFS

Enclosed is a copy of the proposed film treatment written by Bernie Holtman of the Educational Communications Department at Syracuse. This treatment was wrkttten to serve the primary need of requesting funds for the movie production.

It is not complete and needs considerably more detail. It does however give an indication of the flavor and style we hope to follow.

Please study it carefully and be prepared to add your thoughts and ideas and specific examples at our next committee meeting.

Sincerely,

Steve

Stephen Simkins
Chairman

CONSERVATION DEPARTMENT
RECEIVED

APR 16 1970

BUREAU OF FISH
& WILDLIFE
RESEARCH

SUGGESTED TREATMENT FOR AQUATIC SCIENCE FILM

B.T. Holtman
March 1970

The film opens with a sequence of a fly fisherman landing a trout. He holds it up and admires it.

Perhaps work in non-appropriateness use as well as taking the fish home?

emphasize trophy or limited appropriation in this instance →

FISHERMAN'S VOICE:

"Plenty of butter ...roll him in bread crumbs...into a hot pan..." (FADES OFF)

Dissolve to commerical fishing sequence. Net dumps fish into hold--- whip to housewife picking up package of frozen fish in market; examines it.

stress appropriation use - - increase in high value food source for growing world population

emphasize eating fish in fish market scene →

HOUSEWIFE'S VOICE:

"Rub with garlic...sprinkle with lemon and broil in..." (FADES OFF)

Dissolve to sequence with fisheries scientist as he uses electro-shocking gear to collect fish.

SCIENTIST'S VOICE:

"We'll need a scale count... stomach analysis...and better run a blood sample through the chromatograph..." (FADES OFF)

NARRATOR:

Short fish →

Game fish...commercial fish...

They're both a ^{resource} crop. Assuring that

there will continue to
be a crop to harvest is the
job of the aquatic scientist.

Opening titles are overlaid over a montage
of various aspects of fisheries activities.

*SPORTS FISHING? - Commercial
Fishing? - Biologists activities?*

Someone has called it, "The Exploration of Inner Space"... an appropriate enough description of this recently accelerated study of our single greatest natural resource: the water which covers three quarters of the surface of our planet.

In the next decade, thousands of professionals, billions of dollars and a whole array of new technology will be concentrated on this effort.

To date, the principal product of a thousand years of investigation is the knowledge that our waters hold a vast, untapped potential for the food, recreation and other as yet unexploited benefits for our now burgeoning population.

We know at least 20,000 species of fish. Indications are that this is only a part of the actual number that exist.

We know something of the life cycles and habits of certain species. The rest remains a mystery.

We know that microscopic plankton, aquatic vegetation, crustaceans, fish and water mammals of all forms and sizes depend on a delicate, interdependent and easily disturbed food chain. We know relatively little about maintaining or promoting this fragile equilibrium.

Unfortunately, however, the multiplication of our numbers and the expansion of our industry have had a devastating effect in disturbing this equilibrium. For untold centuries, man's inroads on the aquatic environment were negligible in relation to the bounty of the water. Suddenly, this is no longer so.

Ironically, it is man's progress in other areas that has resulted in creating the greatest single obstacle in our exploration and exploitation of inner space: The exploding population and the technology created to support it.

For instance...many of the salt water fish we use for food are anadromous--that is, they return to fresh waters to spawn. Nature, herself, provides many difficulties for these species--but their determination is heroic.

Even their powerful instinctive drives, however, cannot overcome some of the obstacles man has created in his progress...

...watersheds modified by agriculture, forest harvest, housing, wash silt into the stream---clog estuaries--smother fish roe. *expand this point to include problems of temp. water quality in general.*

Effluents from thriving communities and industrial complexes *heavy metals, etc.* contaminate the waters with oxygen-depleting pollutants--leaving the fish to suffocate. *expand to include more than O₂ depletion*

Our reservoirs, pose towering dams for the fish on their way to spawn...

...and our hydro-electric plants, whirling turbines for those returning to the sea.

Nutrients: even when efforts have been made by communities to make their effluents biologically safe before discharging them into waters, these wastes are often so rich in nutrients that they support a tremendous growth of algae which clogs the water and when it dies, uses up the dissolved oxygen needed for desirable species of fish to thrive.

Pesticides: Certain of the pesticides which were such a boon to farmers just a few years ago have now, inevitably, found their way into our waters. These "hard" pesticides exhibit a residual phenomenon which builds up, particularly in fish, killing some and making others unfit for human consumption.

Thermal: Our atomic age has pinpointed still another relatively recent form of pollution. Many industries have for years used water for cooling purposes and discharged it, heated, back into its source. But the extreme temperatures and enormous quantities of water required in nuclear power plants has dramatized the problem of what can happen when the delicate balance of nature is upset by thermal discharges even into large bodies of water.

The vulnerability of our inland waters has shown us one of the challenges of the next decade. Solutions may be expensive to implement-- but not nearly so costly as the alternative of doing nothing.

Our oceans on the other hand are so vast that it seems inconceivable to most people that it would ever be possible to pollute them.

The same reasoning was applied to the Great Lakes, which together, represent an area of almost 100,000 square miles, equal in size to the six New England States combined. Yet, in only a relatively few years they are being ruined for commercial and sport fishing...even for recreation. Lake Erie has already reached this stage; Lake Michigan is at the point of being called an open cesspool; and the rest are following in the same vein.

Off Blue Point, Long Island, oyster beds are closed for miles because of runoff from duck farms.

Clam beds around Narragansett Bay, Rhode Island, are no longer harvested because these shell fish are contaminated by domestic and industrial pollutants.

The incidence of enormous oil slicks from wrecked tankers and leaking underwater wells is increasing. When the oil comes to

the shoreline, it creates a condition which may take years to correct. Today there are untold miles of beach which are no longer usable for fishing, recreation...even aesthetic appreciation.

When oil moves out to sea, it destroys plankton and other marine life...and may be having effects which we cannot even guess at.

It is already known that both the silt and the effluents from our rivers has changed oceanic characteristics for many, many miles out to sea.

With tremendous effort, some of our inland waters may be reclaimed--but our oceans, once fouled, will present an insurmountable restoration problem. It is vital to our very survival that the oceans remain a viable, renewable resource.

THESE PROBLEMS ARE THE CONCERN OF THE ENTIRE SCIENTIFIC COMMUNITY--BUT IS IS ONLY THE AQUATIC SCIENTIST, THE MAN CLOSE TO THE PROBLEM, WHO CAN TELL US WHAT IS GOING ON IN THE ENVIRONMENT.

The term "aquatic scientist" covers a wide spectrum of specialists. These are the professionals who are working on the various detailed aspects of water quality and fish production and harvest.

At this point, we take a close look at the work of the limnologists, marine biologists, hatchery scientists, oceanographers, etc.

Although this coverage of the work of the men in the field represents a small part of the bulk of this treatment, it will actually represent at least fifty percent of the screen time of the film.

Selection of the efforts to be covered will be an area of great importance in development of the shooting script and should ^{not} be dealt with arbitrarily or perfunctorily in this treatment.

It is suggested, however, that in addition to the more commonly recognized elements we should include such things as fish farms, the program of the aquanauts, and such projected possibilities as cultivation of the sea by use of atomic heat to create artificial upwellings.

After a brief summary, our conclusion should probably be something to the effect that, though it is the aquatic scientist who is at the forefront of this crucial effort to preserve and benefit from our water resources, broad public cognizance and support are required to implement his findings.

*Research Foundation of the
State University of N.Y., College of Forestry, Fish Division
Wald 9.T.*

THE AQUATIC SCIENCES AND OUR AQUATIC ENVIRONMENT

Cost Council - 2,000
S.F.I. - 1,000
S.F.I. - 1,500 2nd. pr.

I. Introduction

A. Eye catcher

1. Fresh water scenes - (Instant)
 - a. Rainbow or salmon jumping falls
 - b. Landing 1 or 2 species fresh water fish

2. Marine scene

1. Jumping salt water fish

Audio - music

B. Earthrise from moon

1. Water vs. land

C. Globe spinning

1. Water vs. land

Audio - Water covers approximately 75 per cent of earth surface.
Water is part of atmosphere as seen in cloud cover, etc.

II. Water Resource Values

A. Human consumption

1. Scene of reservoir, drinking

Audio - amount of water required daily.

B. Food

1. Scene of commercial catch and marketing of fish, shellfish, seaweed

Audio - monetary and protein values.

C. Industrial

1. Scene of industrial use

Audio - daily industrial use.

D. Recreational value

1. Scenes of recreational use

a. Boating (sailing, motor, etc.)

- b. Fishing (summer and winter)
- c. Swimming
- d. Hunting (water fowl)

Audio - Approximate recreational values. Mention, all the above values can be maximally maintained from healthy aquatic environments. Many of our aquatic environments are no longer in a healthy condition.

E. Environmental destruction

- 1. Scenes of pollution - industrial and domestic
- 2. Filling marshes, estuaries, draining
- 3. Dam construction
- 4. Road construction

Audio - Explanation of how rapid the above are destroying environmental quality. Today our environment is changing faster than at any time in our history. Fortunately modern technology in aquatic science has also progressed rapidly to enable us to better realize the role various units of the biota play in the total picture of survival of man and other species on this planet. Who a few years ago would have considered the part lowly plankton in the sea play in the supply of oxygen throughout this planet earth, or that insecticides sprayed on inland areas could be detrimental to that very plankton that are so important. Similar analogies can be made throughout the animal and plant kingdom. To understand and protect the aquatic portion of our environment, a large professional team is at work with the general practitioner of this team being the aquatic biologist.

III. Professionals (Management)

A. Aquatic biologist

- 1. Netting, (trawling), reclamation, electrofishing, spawn taking, tagging

Audio* - Explanation of various techniques

- 2. Routine water chemistry

Audio* - Explanation

- 3. Mapping and sounding

Audio* - Explanation

* In the audio for each category from here on the relationship between the scene and environmental quality will be stressed.

4. Public relations

Audio - Explanation

5. Laboratory procedures

a. Scale reading, fish identification, bottom analysis, etc.

Audio - Explanation

Audio - To maintain these environments in a healthy condition the aquatic biologist often must rely on other members of the aquatic science team.

B. Aquaculture

1. Fish culture operation

Audio - Explanation of need and practices

2. Oyster culture (?)

Audio - Explanation

C. Stream improvement structures and artificial reefs

Audio - Explanation

D. Pathology

1. Laboratory and field techniques (blood sample and lab cultures, etc.)

IV. Professionals (Research)

A. Research biologist

1. Scenes depicting feeding or nutrition research. Comparisons between wild, domestic and hybrid brook trout, chromatography, computers, etc.

Audio - Explanation (See page 4 - Society brochure).

B. Limnology

1. Scenes of use of limnological gear

Audio - Explanation

C. Oceanography

1. Scene of oceanographic vessel and gear

Audio - Explanation

V. Professionals (Administration)

1. Scene of someone distinguished behind a desk with pretty secretary in a mini skirt. - Administration building.

Audio - brief explanation

VI. Professionals (Teaching)

A. Scene of class programs, both lecture, and labs.

B. Scenes of University oriented research programs.

1. Student (graduate and undergraduate)

2. Faculty

Audio - Explanation - See page 4 of pamphlet.

C. Scene of teaching specialist

1. Taxonomist

2. Bacteriologist

3. Physiologist

4. Etc.

Audio - Explanation

VII. Summation

It is quite obvious how human endeavor has crippled many of our aquatic environments (show bad pollution scenes). It is also obvious that all of us want clear, cool water and healthy environments (show healthy environments such as mountain streams and crystal lake with swimmers, sailors, etc.) We must face the fact that wherever human populations thrive and prosper, our aquatic environments face potential downgrading. (Small village and clear river vs. large city and dirty river). It is the all important and essential job of the aquatic science team to prevent this environmental destruction and where necessary to reverse the destruction and improve environmental quality (scenes of pollution abatement). Dedicated young scientists will play an important role in preserving and maintaining environmental quality in view of the anticipated future population and industrial expansion. (Scenes of little kids catching frogs and high school kids digging clams.)

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DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

September 30, 1970

Mailing Address:
Fennell Hall, Cornell University
Ithaca, N. Y. 14850

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

Mr. Stephen Simkins
Paul Smiths College
Paul Smiths, New York

Dear Steve:

I assume that you will be notified directly, but Mr. Forster called today to say that the Foundation approved the \$ 1700 for the film on Careers in the Aquatic Sciences. This is very good news indeed. Herm Forster did say that one of their board members hoped that we could work in something about mercury in the film and I assured him that this could probably be done.

For your information, the full name of this foundation is the New York Conservation Council and American Game Association Foundation. This should appear in any acknowledgements of agencies or groups supporting the production of the film.

I have asked Herm to have the check drawn in favor of the New York Chapter of the American Fisheries Society and presumably it will be sent either to me or to you for transmittal to the Chapter Secretary/Treasurer.

Sincerely yours,

DAW

Dwight A. Webster
Head of Department

DAW:cmw

cc: Herm Forster
Paul Neth ✓
Ken Wich

CONSERVATION
BUREAU

OCT 6 1970

BUREAU OF FISH
-RESEARCH-

PAUL SMITH'S COLLEGE
PAUL SMITHS, NEW YORK 12970

April 10, 1970

To: Members, Professional Standards Committee
NY Chapter AFS

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APR 13 1970

DEPARTMENT OF RESEARCH

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March 1970

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3/24/70

MEMORANDUM

TO Paul

March 17, 1970

I think Dick Schaefer.
He is a few things
I don't know the
others to be:

Extrovert

Ambitious

Equal 50/50?

AL Jensen 516 585 5400
office

Home 516 928 1885

GA-9

... in Syracuse on February 10th.
... being we were in general
... some of the film sequences to
... Educational Communications
... film treatment in time to get
... or inclusion with our funding

... treatment done on time due to
... later - marine film sequences
... all fresh water oriented.

... nce last Friday when I made
... that they will do a superb
... job on the film if we can get funding. Secondly, would
... you please appoint a knowledgeable marine biologist to
... our committee. I know none and would like you to ask
... someone to serve. I anticipate another meeting in late
... April at which time I would like to have a marine oriented
... member present.

Thanks Paul.

Hastily but sincerely,

Steve

Stephen Simkins

John Cook
Dick Schaefer
AL Jensen

Albert Jensen
516 585 5400 office
516 928 1885 Home

MAR 13 1970

RESEARCH



NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

APR 6 1970
RESEARCH

April 2, 1970

Dr. Paul Neth, President
NYS Chapter AFS
New York State Conservation Department
Wolf Road
Albany, New York

Dear Paul:

Dick Stroud has indicated that SFI would rather award our research request for funds to The Research Foundation of State University of New York, College of Forestry rather than directly to our chapter. The Research Foundation has agreed to handle the funds for us.

Since we are requesting research funds and since our chapter officers and committee chairmen change annually, I suspect it would be better from their point of view.

I am therefore enclosing another memorandum to be signed by you as chapter president. Please sign and return to me forthwith so that I can get the signature of the fiscal officer of the Research Foundation and be prepared to submit our request to SFI as soon as all required documents are complete.

I still have not received a film treatment from Syracuse. Will send you a copy when it is received.

Sincerely,

Stephen Simkins
Chairman, Professional
Standards Committee

Enc.

P.S. - send me your ZIP #
please

*Done
4/6/70*

Prospectus for a Film Entitled
Careers in Fisheries and the Aquatic Sciences

The New York Chapter of the American Fisheries Society is concerned with problems of recruiting professionals in to the fields of fishery science and the need for aquatic scientists in general to cope with problems in environmental quality. This organization proposes to sponsor a sound-color film to interest science oriented students at the high school level in a career in aquatic biology ... careers at all levels of endeavor; technicians, researchers, resource managers and educators.

Three primary objectives of the film will be:

- (1) To stimulate interest in aquatic biology as a profession, especially in the fisheries field.
- (2) To provide visual insight on the importance of maintaining environmental quality for aquatic life and for maximum value of aquatic resources for recreation and food.
- (3) To provide a broad understanding of the man-made problems in the aquatic environment with which resource manager must cope.

The film would have sufficiently broad audience interest to be of value in high school science courses and to sportsmen and other lay organizations. It would be twenty minutes in length and, if structured according to present thinking, would depict the activities of aquatic scientists in solving environmental and management problems related to (1) maintaining habitat quality and (2) maintaining stocks of fish. Consideration is also being given to adapting suitable sequences to four minute television shorts.

To keep production costs low, the Society proposes to contract with the Educational Communication Department, State University of New York, College of Forestry, Syracuse University to produce the film. This agency agreed in preliminary talks, to provide the hardware and personnel to produce the film at no expense, if the

Proposed Subject Areas for In-Service Training Program
Suggested by Fish Research and Propagation Personnel

Subject areas are listed in decreasing order of occurrence.
Based upon replies from nine different individuals (eight
research, one propagation).

Subject proposed by five individuals

1. Fish identification, taxonomy, anatomy

Subjects proposed by four individuals

1. Operation and maintenance of fishing gear (nets, weirs, shockers)
2. Proper use and maintenance of outboard motors, boats and other field equipment.

Subjects proposed by three individuals

1. Water chemistry
2. Identification of aquatic insects, life history
3. Organizational structure (Departmental, Divisional, etc.)

Subjects proposed by two individuals

1. Fish marking techniques (fin clipping, tagging, etc.)
2. Management regulations (types, reasons for and objectives)
3. Fish propagation (for bioassay and pathological work)
4. General aquatic biology and ecology
5. Fish population estimations (sampling and calculations)
6. Familiarization with basic laboratory equipment

Subjects proposed only once (i.e., by only one person)

1. Identification of common bottom types
2. How to record field data and field notes
3. A review of Rounsefell and Everhart
4. Basic fundamentals and theories of population dynamics
5. Biological sampling techniques (designs and methods, basic statistics)
6. Basic bioassay procedures
7. How to calculate ppm, lbs./acre, mgm/kg, etc.
8. Factors influencing stream-fish supportability and number determining
9. Factors involved with determining "good or bad" lakes and ponds
10. Familiarization with limnological equipment
11. Familiarization with bacteriological and histological lab procedures
12. Principles of spawn taking (fertilization, water hardening, counts, incubation)
13. Basic presentation of fish diseases and etiology.
14. Proper method for obtaining fish data (lengths, wts., scales, etc.)
15. History of sport fishing
16. Status of sport fishing from recreational, social and economic standpoints
17. Problems in maintaining or extending sport fishing from biological, social and economic viewpoints
18. Relationships among research, management, fish culture, land acquisition, stream protection, and law enforcement units in maintaining sport fishing
19. Activities of categories

November 26, 1969

Prepared by 1969 Professional
Standards Committee
New York State Chapter
American Fisheries Society

PROPOSED SUBJECT AREAS FOR IN-SERVICE TRAINING PROGRAM
SUGGESTED BY FISH MANAGEMENT.

Subject areas are listed in decreasing order of occurrence. These are based upon replies from eight individuals.

Subjects proposed by four individuals

1. Fish identification, including the use of keys and sexing.
2. Construction, operation and repair of netting gear.
3. Water chemistry and temperature series.

Subjects proposed by three individuals

1. Scale samples (taking, handling, and reading).
2. Construction, maintenance and theory of electro-fishing gear.

Subjects proposed by two individuals

1. History and ecology of important fish in N.Y.S.
2. Principles of fisheries management including basic ecological concepts.
3. Proper recording of survey data.
4. Hydrographics - use of fathometers, map making, calculation of depths, flows, etc.

Subjects proposed by one individual

1. Identification of aquatic plants and insects.
2. Awareness of pollution indices and their impact on habitat.
3. Methods of preserving fish.
4. Operation and maintenance of motorized equipment and boats.
5. Conducting creel censuses.
6. Theory behind field work.
7. Discussion of gear selectivity.

1. Primary intent - to be used by guidance counsellors to encourage students to enter profession. Isn't logical to consult with guidance experts before establishing format?

2. As a recruitment film, might well follow format established by Society career brochure; i.e., 'Why-important resource; What-types of employment; Who - Professionals, Technicians; Where - State, federal, private; Salaries and benefits.'

3. Neither outline seems oriented toward career film in sense of covering such items as above. "Careers In Aquatic Sciences" comes closer.

4. If must be made general to encourage certain sources of money; forego that source of money. Primary concern - to satisfy an objective which in turn should meet requirements of intended audience.

Earl - Comments on N.Y.C. Film outlines

I - "Careers in Aquatic Science" outline -

1. Title doesn't seem to fit the outline. The outline is slanted toward specific causes for environmental degradation rather than to the aquatic resource manager's role in ^{not only} maintaining a favorable environment for the benefit of mankind but aquatic creatures as well.

2. The vital role of the aquatic resource manager has been overlooked - namely that of planning. This is going to become even more important in the future as broad scale regional planning intensifies. Manifestations of this are apparent now under Steam Protection law when many proposed projects involving waterways are reviewed, and methods suggested for mitigating damages. ~~or project~~ The type of planning now underway with power companies is ~~another~~ and Department of Transportation or County highway ^{our main into}

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

February 19, 1970

Mailing Address:

*Fernow Hall, Cornell University
Ithaca, N. Y. 14850*

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

*Dme
2/24/70*

Dr. Paul Neth
Bureau of Fish
New York State Conservation Department
Albany, New York 12226

Dear Paul:

While in Albany one of the several minor items I failed to take care of was to leave the official application for research funds for the Sport Fishing Institute with you for signature. This has to do with the request for support for the careers film. In order to get the official request in the works, you should sign this as President of the New York Chapter (where I have X'ed the application form) and get the Secretary-Treasurer of the Chapter to sign as well. Then the form should be returned to Steve Simkins who should sign it as the "supervisor" giving as his title chairman of the film committee or whatever the official designation is.

Since this is a New York Chapter proposal, this is the appropriate designation where normally the Conservation Department or Cornell would be indicated as the agency. Steve will have to prepare a document, probably a modification of our prospectus, to accompany the application. In addition to the prospectus, Dick Stroud has indicated that they will require a more detailed outline of film content.

Sincerely yours,

Webster
Dwight A. Webster
Head of Department

DAW:cmw
Enclosure
cc: Steve Simkins

CONSERVATION DEPARTMENT
FEB 20 1970
-RESEARCH-

SPORT FISHING INSTITUTE

719 - 13th Street, N.W. • Washington, D. C. 20005

MEMORANDUM

TO: Applicants for Research Funds

FROM: R. G. Martin, Assistant Executive Vice President

SUBJECT: Required format for proposals to the Sport Fishing Institute for award of Research Grants or Fellowships (Rev. 5/1/67)

To facilitate the preparation of your proposal to the Sport Fishing Institute for award of a Research Grant or Fellowship, the following outline should be implemented by you. In order to expedite our review and evaluation, your proposal should be brief and to the point, and must include the following, preferably in the sequence indicated:

1. Concise description of research proposal, including:
 - (a) Title of project
 - (b) Background justification
 - (c) Statement of problem and specific objectives
 - (d) Personnel, facilities and equipment
 - (e) Tentative research budget; indicating duration and separable annual segments.
 - (f) Cooperating agencies, if any, and nature and extent of cooperation.
2. Name(s) and title(s) of supervisory professor and/or of principal investigator, with institutional and departmental affiliation.
3. Endorsements by supervisory professor or department head, as appropriate, and by institution's fiscal officer.
4. Summary of principal investigator's qualifications:
 - (a) Brief biographical sketch of educational and professional accomplishments, including significant publications if any;
 - (b) If a fellowship, include certification as to academic standing of intended recipient graduate student and outline any special capabilities he may have for undertaking particular proposal.
5. A single copy, suitably signed and dated, of the MEMORANDUM OF UNDERSTANDING OF CONDITIONS AND STIPULATIONS COVERING AWARD OF SPORT FISHING INSTITUTE GRANTS OR FELLOWSHIPS (particularly noting the stipulation in paragraph 4(a) that no part of these funds will be used to defray university or departmental overhead), copies attached.



ADIRONDACK CONSULTING SERVICE

SPECIALIZING IN

Fish and Game Management



STEPHEN V. R. SIMKINS
Consulting Biologist

Box 134
PAUL SMITHS, NEW YORK

December 27, 1969

Dr. Paul C. Neth
President-elect
New York Chapter
American Fisheries Society
New York State Conservation Department
State Campus Site
Albany, New York

Dear Paul:

I have enclosed a typed outline of our committee report as you have requested.

If you need copies of the movie prospectus or outline which is still tentative please let me know. Copies of the suggested topics for inclusion in the training course have been distributed to Dr. Webster, Dr. Eipper, and Carl Parker. If you need a copy of these I can also send this along.

Hope you and your family had a Happy Holiday Season.

Sincerely,

Stephen Simkins

Professional Standards Committee

Annual Report

December 4, 1969

I Introduction

A Committee Composition

1. S. Simkins, Chairman, D. Plosila, W. White, D. Webster, Advisor

B Requested to investigate 3 objectives by Executive Committee

1. Attempted to investigate each to either a reasonable conclusion or to an impasse.

2 Investigations

A Training program for fishery workers

1. Sent inquiries to management, research, and fish culture requesting:

a opinion as to value

b suggested topics for inclusion in course

2. Results of inquiry:

a opinion

	Management	Research	Fish Culture
yes	7	7	1
no	0	2	0
doubtful	1	0	

Summary: 15 yes; 2 no; 1 doubtful 15/18 yes - 83%

b suggested topics

Many, but most frequently mentioned were:

- | | |
|-----------------------------|---|
| 1) fish identification | 5) Handling & Maintenance of boats and motors |
| 2) fish anatomy | 6) Handling & Maintenance of sampling gear |
| 3) water chemistry | |
| 4) bottom types & organisms | |

3. Queried Cornell for their availability to supervise course.

a Dr. Webster had already talked to Carl Parker, Bill Bentley, and Al Hall about training course.

b Cornell plans to have training session for their students at Shackelton Point and could include practising fishery workers

4. About all committee can do is get Chapter endorsement for the course.

- c The next Professional Standards Committee could write an informative article on job opportunities and source of career brochures
 - d Many schools lack adequate space for display of these many career brochures and literature
2. Committee felt, therefore, that rather than distribute more brochures and literature at some expense and questionable value, that we should try to promote increased interest and really inform the counselors and thus the students about fisheries as a profession.
- a We believe this objective could be achieved by producing a full color, sound film on "Fisheries as a Profession".
3. Status of movie
- a Concept of a movie conceived in March
 - b A general outline was formed in May
 - c Following some correspondence we met with Educational Communications Department at College of Forestry in Syracuse on November 20th
 - 1) Meeting most successful and fruitful
 - 2) Estimated cost of movie \$5000-6000
 - 3) Film to be usable on a national level but filmed mostly in Northeast
 - 4) Dr. Webster to check on funding with NYS Conservation Council and Sport Fishing Institute
 - 5) Once funding is obtained, Mr. Holtman from Syracuse will write a treatment, this will be critically analyzed and revised and production will start

4. Recommendations

- a Request the Chapter to endorse the concept of producing a movie
 - 1) Endorsing motion requested, unanimously passed, and included in Chapter minutes
- b Request special committee be appointed to continue work on film

Flick

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A CONTRACT COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY
ITHACA, NEW YORK

January 2, 1970

Mailing Address:

*Fernow Hall, Cornell University
Ithaca, N. Y. 14850*

FISHERY BIOLOGY
FORESTRY
NATURAL RESOURCES
WILDLIFE MANAGEMENT

JAN 7 1970

Mr. Richard H. Stroud
Executive Vice President
Sport Fishing Institute
719 Thirteenth Street, N.W.
Washington, D. C. 20005

Dear Dick:

Thanks for the detailed response to my letter of December 12 written on behalf of the Professional Standards Committee of the New York Chapter of the American Fisheries Society. It is gratifying to have your expression of interest and at least tentative commitment to some degree of financial support. We appreciate the problems of budgeting and it may be that our time schedule will have to be adjusted to the availability of cash. In any event, I recall that the tentative dates for completion of the film were targeted somewhere in early 1971.

Chairman Simkins has written to the parent society and I am sure will follow up the other suggestions that you have made. I have not yet heard from the Conservation Council, but feel rather confident that they will be in a position to offer some support. We didn't expect SFI to pick up the entire tab.

I'll respond briefly to some of the other well taken points raised in your letter and then send the material on to Steve Simkins.

We definitely intend to include the marine environment, although this was not specifically mentioned in the prospectus. It would be essential to get as broad coverage of the total aquatic resource field as possible within the time limits.

I think the Committee is in agreement that items 2 and 3 should receive major emphasis in this film. As a matter of fact, the New York Conservation Council had an initial reaction the same as yours: namely, that they were not particularly interested in supporting a recruiting film per se, but were highly interested in anything that had to do with environmental quality. The proposed producer of the film, the Educational Communications Department of Syracuse, is a thoroughly professional outfit and has considerable experience in making both movies and TV shorts. It is quite possible that the TV films would be edited in a different way so as to fit into the program time available.

We have a preliminary listing of the subject matter materials we would like to include as well as possible locations for obtaining the required footage. I am sure that this will be available for perusal and for comment in the next few weeks.

New York Chapter provides funding for production costs (largely film and travel). These costs would be minimal because illustrative sequences would be filmed in New York and neighboring states. But the examples selected and the narrative would illustrate principles and be of general interest and application.

It is estimated that the production costs would be about \$ 5,000. Hopefully this would also include two prints to be made available at no cost to appropriate film distribution centers in New York. Additional prints would be available from the Communications Department at cost.

Financial backing for this project is solicited. We are hoping for a release date early in 1971.

Committee on Professionalism

New York Chapter, American Fisheries Society

Mr. Steve Simkins, Chairman

Professor D. A. Webster, Adviser





4. Lab not showing operation of gas chromatograph used

in determining of DDT and other pesticides → Agassiz &

F. Thermal discharges - *Consistent discharges - 1st part gone - 2nd part fix. of 7/20/61 & 1 hour*

1. Plant with thermal effluent

2. Biologist using infrared sensing - or other sampling

devices to plot plume or heated water ← *Williamson's plant*

3. Fishery studies related to effect of plume

4. Screened in lake and related problems - Con. Bd. at

Indian Point

G. Nutrient control in Run-off water

1. Municipal sewage treatment plant, last not showing clear

effluent discharge

2. Possible aerial shot showing effect of nutrient rich water

on bloor (St. Regis Lakes)

3. Farmer fertilizing field - manure on snow, other

4. Shot of heavy algal bloom, photo micrograph of blue green *Microcystis*

algae (with shot of bio. looking thru microscope)

5. Heavy rooted aquatic weed growth → *Water hyacinth*

6. Problems of motor boating, fishing and general public recreation

use caused by heavy weeds

7. Research in nutrient stripping (Dow Plant at Grayling, Mich.)

and spraying tertiary treatment effluent on land (Penn. State).

Wood control of introduced species.

H. Barriers to fish migration

1. Dam on stream with anadromous fish run, possibly more than one

2. Shot of salmon or shad migrating upstream ← *Con. Board - Ketchikan*

*P.C.F. - Mr. McCallister
Mr. W.A. & Mrs. Ketchikan*

"Careers in Aquatic Science"

Maintenance of a favorable environment for the benefit of mankind is a vital function of the aquatic resource manager.

Waterways degraded by excessive erosion, pollution

or by conditions undesirable to fish production.

Quick shots (1) Primalval stream or lake *← Alvin Clark*

(2) Badly eroded stream bank, muddy water *← Henry & Agnes*

(3) Cases of obvious pollution *← Henry & Agnes, Paul Morris, as George Burdick*

A. Lake and Stream Inventories (taking water samples, operating bathometer, making lake maps) *← Cornell*

B. Stream Improvement

1. Crew working on a stream improvement device(s) *← Cornell, Alvin Clark, Paul Morris*

audio describes purpose

2. Evaluation of devices - Crew digging gravel samples - Lab shot of gravel sorter and operator *← Cornell, Bob Morris*

C. Detection and Study of Industrial Pollution

1. Sampling of water above and downstream of obvious pollution discharge in a stream. *←*

2. Lab shot showing water chemistry analysis

3. Follow thru by audio regarding legal aspects?

D. Pollution and Public Health

1. Oyster industry, "Closed area" algae, purification plant. *← Dear Wallace*

B. Effect of pesticide pollution

1. Shot of aerial pesticide application *←*

2. Hatchery showing fish fry suffering from DDT syndrome *← B. Z. R.*

3. Lab shot showing exp. aquarium set-up with test fish - bioassay tests to determine acute toxicity of pesticides.

3. Fish passes upstream movement ← *Wilson 1951*

4. Problem of getting small fish downstream ← *Wilson 1951*

5. Turbines and effect on fish ← *Wilson 1951*

6. Diversion guiding fence to divert downstream movement ← *Wilson 1951*

1. Reclamation of waters contaminated with undesirable fish species ← *Wilson 1951*

1. Test netting to show species composition and numbers of ←

undesirable fish

3. Application of rotenone

J. Bulldozers in Streams and Landfill operations

1. Stream situation

2. Restoring situation ← *Wilson 1951*

Operator on Long Island
Cuba Sea
Commercial sea boat

Agencies

Artificial opening Channel
Course of commercial ship catch
Course in Cuba Sampling
Trailing (Long Island)

Beach netting

Use of plankton sampler to sample
Processing operation
Trap setting operation

Sampling procedure to human
Rate of registration

at Long Island (1911)

at the station

DEPARTMENT OF CONSERVATION

NEW YORK STATE COLLEGE OF AGRICULTURE

A CONTRACT COLLEGE OF THE STATE UNIVERSITY

CORNELL UNIVERSITY

ITHACA, NEW YORK

January 2, 1970

Mailing Address:

Fernow Hall, Cornell University
Ithaca, N. Y. 14850

CONSERVATION DEPARTMENT

JAN 7 1970

FISHERY BIOLOGY

FORESTRY

NATURAL RESOURCES

WILDLIFE MANAGEMENT

Mr. Richard H. Stroud
Executive Vice President
Sport Fishing Institute
719 Thirteenth Street, N.W.
Washington, D. C. 20005

Dear Dick:

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Chairman Simkins has written to the parent society and I am sure will follow up the other suggestions that you have made. I have not yet heard from the Conservation Council, but feel rather confident that they will be in a position to offer some support. We didn't expect SFI to pick up the entire tab.

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We have a preliminary listing of the subject matter materials we would like to include as well as possible locations for obtaining the required footage. I am sure that this will be available for perusal and for comment in the next few weeks.

Mr. Richard H. Stroud

January 2, 1970

It is quite possible that Steve Simkins will be attending the Northeast meetings in Wilmington and if so, it would sound as though we should get together and discuss this further.

Sincerely yours,

Dwight A. Webster
Head of Department

DAW:cmw

cc: Steve Simkins
Dr. Paul Neth

December 9, 1969

Mailing Address:

Fernow Hall, Cornell University
Ithaca, N. Y. 14850

FISHBRY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

*Simon & Schuster
12/9/69
Tay Welch*

Mr. Richard H. Stroud
Executive Vice President
Sport Fishing Institute
Suite 503, 719 13th Street, N.W.
Washington, D. C. 20005

Dear Dick:

At a recent meeting of the Committee on Professionalism in the New York Chapter of the American Fisheries Society, as an adviser to the Committee, I agreed to contact the Sport Fishing Institute to determine interest in financial support for a film originally designed to recruit high school students in to the profession. A prospectus of the proposed film is enclosed. By incorporating a broad base of subject matter and of activity, we believe the film will also be equally valuable as a teaching instrument in high school science courses as illustrative of problems in environmental quality in aquatic habitats. While the film would emphasize fishery problems and the fisheries profession, other careers in aquatic biology, as well as multiple uses of water will receive treatment.

You will recognize that substantial savings in making the film are realized by not having to pay for professional services.

While it is true that decreases in funding of Federal projects and other austerity measures have created a temporary job scarcity, I feel that this is not an overriding consideration in view of other attributes of the proposed film that will be of immediate use. I hope that you and the Institute will give the project serious consideration for financial support. If you desire further information, please contact Mr. Steven Simkins, Biology Department, Paul Smiths College, Paul Smiths, New York.

We are also contacting the New York State Conservation Council to determine the extent of their interest and support.

Sincerely yours,

Dwight A. Webster
Head of Department
COPY

DAW:cmw
Martin Turner
Herman Forster
Paul Neith
Steve Simkins

Prospectus for a Film Entitled

Careers in Fisheries and the Aquatic Sciences

The New York Chapter of the American Fisheries Society is concerned with problems of recruiting professionals in to the fields of fishery science and the need for aquatic scientists in general to cope with problems in environmental quality. This organization proposes to sponsor a sound-color film to interest science oriented students at the high school level in a career in aquatic biology . . . careers at all levels of endeavor; technicians, researchers, resource managers and educators.

Three primary objectives of the film will be:

- (1) To stimulate interest in aquatic biology as a profession, especially in the fisheries field.
- (2) To provide visual insight on the importance of maintaining environmental quality for aquatic life and for maximum value of aquatic resources for recreation and food.
- (3) To provide a broad understanding of the man-made problems

in the aquatic environment with which resource manager

must cope.

The film would have sufficiently broad audience interest to be of value in high school science courses and to sportsmen and other lay organizations. It would be twenty minutes in length and, if structured according to present thinking, would depict the activities of aquatic scientists in solving environmental and management problems related to (1) maintaining habitat quality and (2) maintaining stocks of fish. Consideration is also being given to adapting suitable sequences to four minute television shorts.

To keep production costs low, the Society proposes to contract with the

Educational Communication Department, State University of New York, College of

Forestry, Syracuse, University to produce the film. This agency agreed in preliminary talks, to provide the hardware and personnel to produce the film at no expense, if the

New York Chapter provides funding for production costs (largely film and travel). These costs would be minimal because illustrative sequences would be filmed in New York and neighboring states. But the examples selected and the narrative would illustrate principles and be of general interest and application.

It is estimated that the production costs would be about \$ 5,000. Hopefully this would also include two prints to be made available at no cost to appropriate film distribution centers in New York. Additional prints would be available from the Communications Department at cost.

Financial backing for this project is solicited. We are hoping for a release date early in 1971.

Committee on Professionalism
New York Chapter, American Fisheries Society
Mr. Steve Simkins, Chairman
Professor D. A. Webster, Adviser

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

December 9, 1969

CONSERVATION DEPARTMENT
RECEIVED

Mailing Address:
Fernow Hall, Cornell University
Ithaca, N. Y. 14850

DEC 12 1969

DEPARTMENT OF FISH
RESEARCH

Mr. Fay Welch
Erieville, New York 13061

Dear Fay:

At a recent meeting of the Committee on Professionalism in the New York Chapter of the American Fisheries Society, as an adviser to the Committee, I agreed to contact the Conservation Council to determine interest in financial support for a film originally designed to recruit high school students in to the profession. A prospectus of the proposed film is enclosed. By incorporating a broad base of subject matter and of activity, we believe the film will also be equally valuable as a teaching instrument in high school science courses as illustrative of problems in environmental quality in aquatic habitats. While the film would emphasize fishery problems and the fisheries profession, other careers in aquatic biology, as well as multiple uses of water will receive treatment.

You will recognize that substantial savings in making the film are realized by not having to pay for professional services.

While it is true that decreases in funding of Federal projects and other austerity measures have created a temporary job scarcity, I feel that this is not an overriding consideration in view of other attributes of the proposed film that will be of immediate use. I hope that you and the Council Board of Directors will give the project serious consideration for financial support. If you desire further information, please contact Mr. Steve Simkins, Biology Department, Paul Smiths College, Paul Smiths, New York.

We are also contacting Mr. Richard Stroud, Executive Vice President, Sport Fishing Institute to determine the extent of their interest and support.

Sincerely yours,



Dwight A. Webster
Head of Department

DAW:cmw

cc: Martin Turner
Herman Forester
Paul Neth ✓
Steve Simkins

COPY

Program Standards

January 19, 1970

Mr. Steve Simkins
Paul Smiths, New York 12970

Dear Steve:

At the first Executive Committee meeting of the New York Chapter of the American Fisheries Society, the main topic of discussion was the formation of working committees and appointments to those committees.

The work of the Professional Standards Committee in 1969 was outstanding and for the first time a program was proposed, which if carried to completion, could be a source of pride to our members for many years. This centers on the development of the film entitled "Careers in Fisheries and Aquatic Sciences." To preserve a measure of continuity in this area, I wonder if you would again be willing to serve as Chairman of the Professional Standards Committee. In 1970, the main efforts of this group would be directed to completion of the film.

Other members which we are suggesting for the Committee include William Fick, Earl Stiles and Dwight Webster. Bill and Dwight have already indicated their willingness to serve on the Committee.

If you do accept the Chairmanship, I wonder if you would contact Earl and determine his willingness to serve on the Committee. I would appreciate your reply as soon as possible.

Sincerely yours,

Paul C. Neth, President
New York Chapter
American Fisheries Society

PCN/ja

New York State
Conservation Department

Excellent to page 8;
Return out at the
heart of the Rubin to
my copy of the book's part

MEMORANDUM

TO: Ken

July

Reacher?

Returns to both

CPM

Leaves in with

expansion as indicated
by I - I think the
GA-9 language can be 52

New York State
Department of Environmental Conservation

MEMORANDUM
TO:

8/1

Skus
5/8 891 0628

Stano & John
Prog

8/15 SFI

Funde
502 SFI
100 TU
200 WA
1700

Stak Gamm 1

PCN/ja

Paul G. Neth, President
New York Chapter, American
Fisheries Society

PN

Sincerely,

If you finally locate this, I would like a copy.

I have checked through my film file and can find no
correspondence from you which gives a detailed cost break-
down for the film. However, I did find one reference to the
sum of \$5,000.

Dear Steve:

Mr. Steven Simkins
Paul Smiths, New York 12970

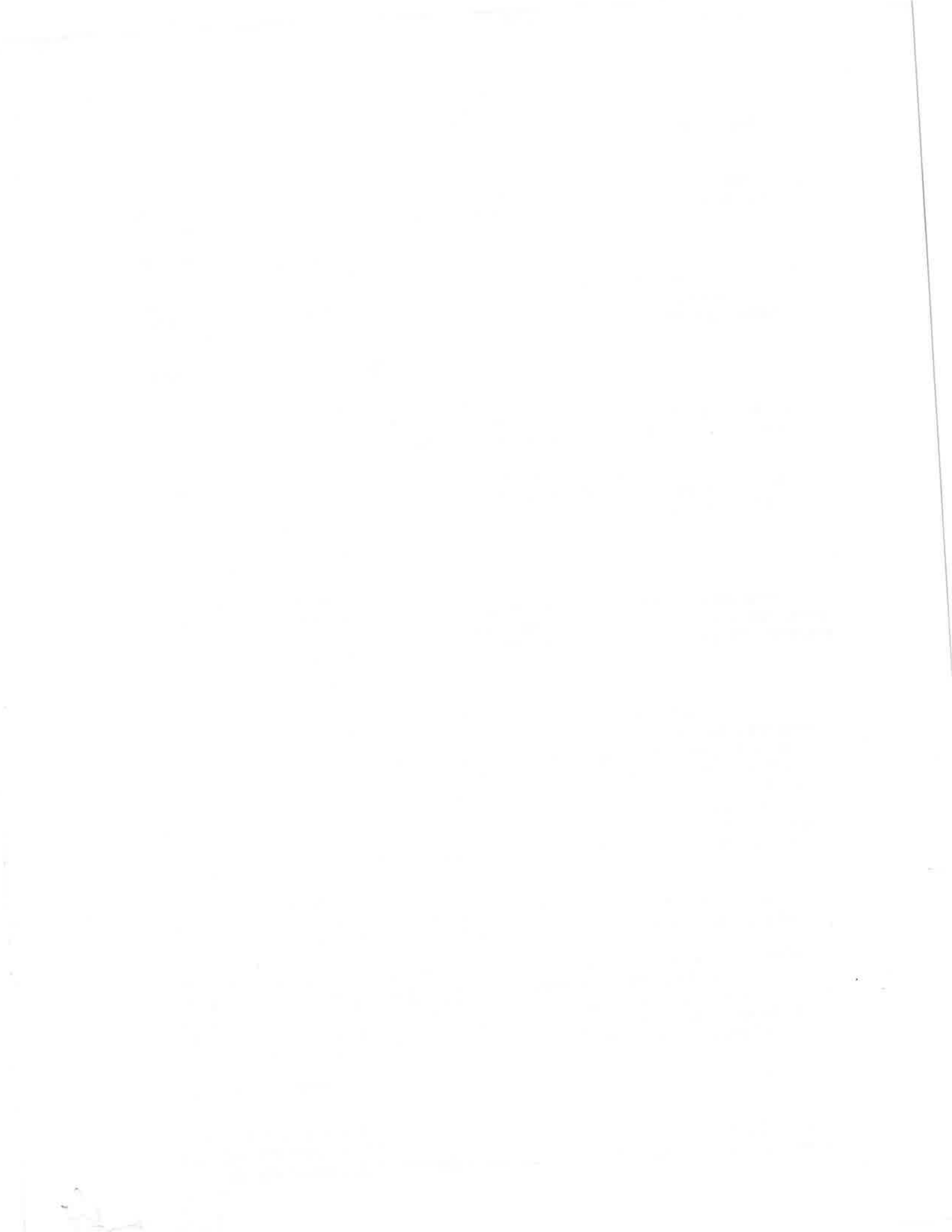
May 19, 1970

Section 10 - Registration

The Executive Committee may assess each registrant attending annual meetings of the Chapter a registration fee necessary to cover the costs of the meeting and Chapter activities. Collections shall be made by the Secretary-Treasurer and disbursements shall be made for financing the Chapter operations, as may be directed by the membership or by the authorization of the Executive Committee.

Section 11 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3, of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.



In the event of a cancellation of an annual meeting the officers and the members of any committees shall continue to serve until the next scheduled meeting.

Section 5 - Duties of Officers

The President of the Chapter shall preside at all meetings, shall serve as the Chairman of Executive Committee, shall represent the Chapter to the (NAME) Division and to the American Fisheries Society, and shall make such appointments and perform other duties and functions as are authorized and necessary. The Vice President shall be Chairman of the Program Committee and shall assume the duties of the President in the event of his inability to act.

The Secretary-Treasurer shall keep the official records of the Chapter, collect and be custodian of registration fees collected under Section 10 of these By-Laws, and any funds which may be allotted to the Chapter. The Secretary-Treasurer shall disburse funds as may be authorized and necessary, and shall submit a record of receipts and disbursements at the annual Chapter meeting. He shall perform such duties as may be requested by the Secretary-Treasurer of the American Fisheries Society and of the (NAME) Division.

Section 6 - Executive Committee

The Executive Committee of the Chapter shall consist of the elected officers and the immediate Past President. The committee is authorized to act for the Chapter between meetings and to perform appropriate duties and functions.

Section 7 - Chapter Committees

Committees and the Chairman of Committees except as listed in Section 5 of these By-Laws, may be appointed by the President as may be necessary for the conduct of the Chapter activities.

The terms of office for members of Chapter Committees shall end upon the discharge of the duties for which they were appointed, or at the next annual meeting of the Chapter, which ever comes first.

Section 8 - Election of Members

Application for all classes of American Fisheries Society memberships may be received by the Secretary-Treasurer of the Chapter and shall be forwarded to the Secretary-Treasurer of the Society.

Section 9 - Voting and Quorum

Decisions at meetings of the Chapter shall be in accordance with Article IV, Paragraph 4, of the Constitution of the American Fisheries Society.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter membership.

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Officers shall be elected at the annual meeting. The Secretary-Treasurer may hold office for a period longer than one year, but the term of the other officers shall be one year. In case of a vacated position, the Executive Committee shall appoint a qualified replacement to fill an unexpired term.

The officers of the Chapter shall consist of a President, Vice President, and a Secretary-Treasurer.

Section 4 - Officers

The Chapter shall hold at least one meeting annually at a time and place designated by the Executive Committee. The program and presentation of papers shall be the responsibility of the Program Committee.

Section 3 - Meetings

The membership of the Chapter shall be composed of those American Fisheries Society members in good standing residing in the _____ (AREA).

Section 2 - Membership

The objectives of the Chapter shall be those of the American Fisheries Society as set forth in Article I of the constitution, and to encourage the exchange of information by members of the Society residing within the _____ (AREA).

The name of this organization shall be the _____ (NAME) Chapter of the American Fisheries Society, and herein after referred to as the Chapter.

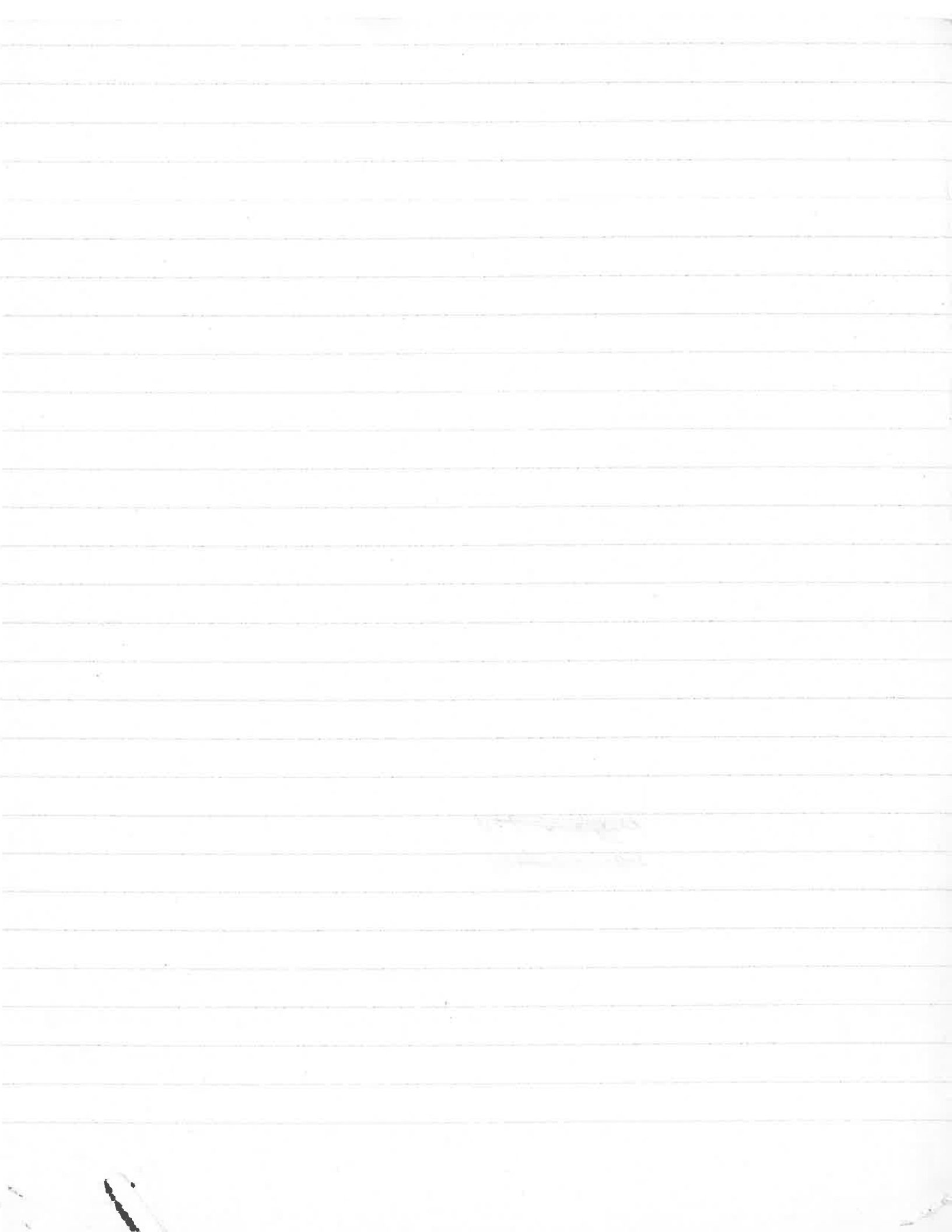
Section 1 - Name and Objectives

7. The chapter president should report on all activities, meetings and business of the local chapter to the Division President. Only in this way can continuity be maintained with the National Society.

6. Part of the business portion of the chapter meeting could be devoted to the discussion of pertinent information concerning the Division or National organization. In this way local members would have more of a voice in the operations of the parent society.

- B. Presentation of papers on research and management projects.
- C. Discussion by round table or symposium - the various fishery problems of concern or interest.
- D. Include on the program, from outside a local chapter area, material by a guest speaker which may be of interest to the group.

SUGGESTED BY-LAWS FOR A CHAPTER, AM. FISHERIES SOCIETY

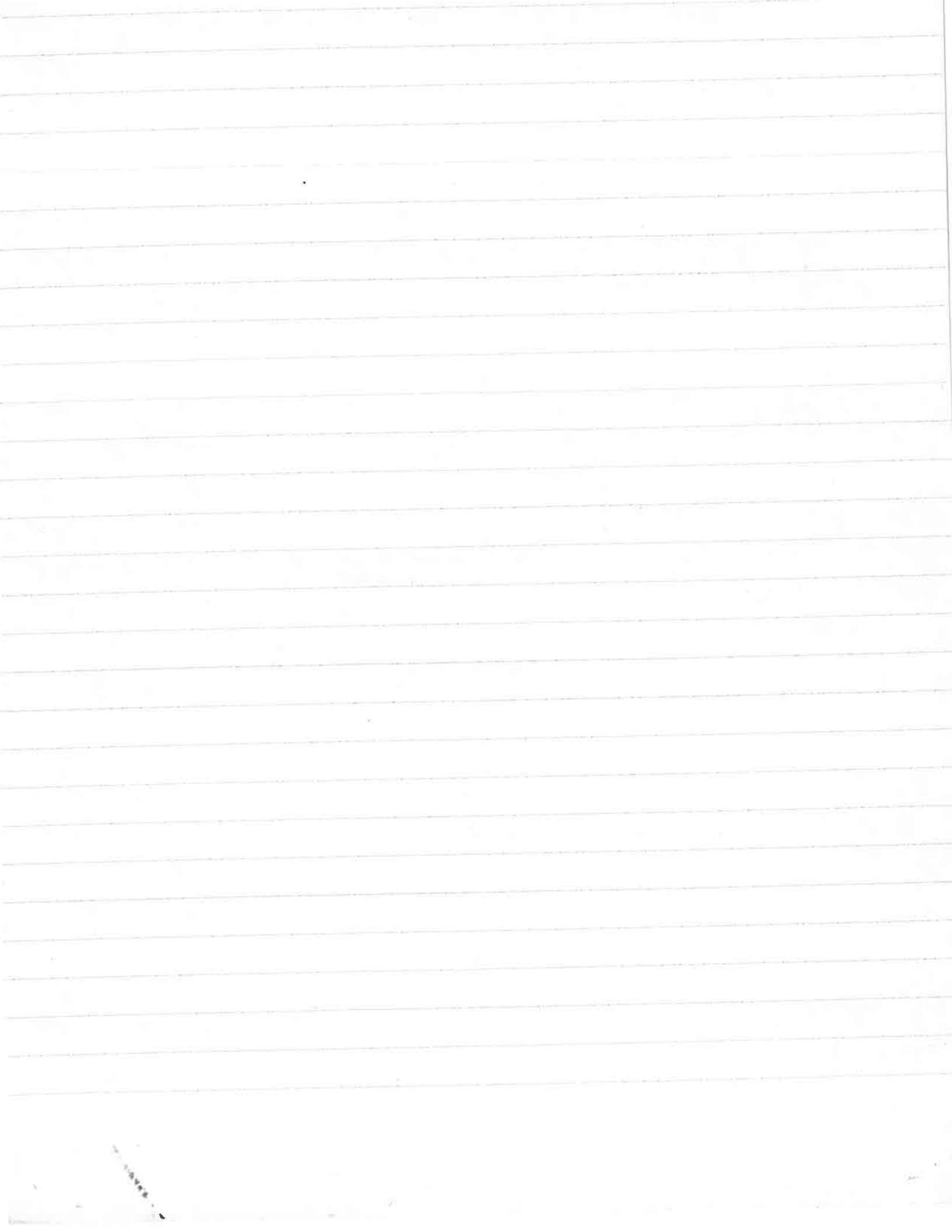


Section 11 - Amendment by the Bt-Dawson

The Bt-Dawson of the Chapter may be amended and

approved in accordance with Article IV, Paragraphs 11, and Article VI, Paragraphs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

~~Prepared by~~
~~Robert J. Dawson~~



The terms of office for members being elected to the Committee shall end upon the date of the meeting of the next meeting of the Committee, and the next meeting shall be held on the date of the meeting of the next meeting of the Committee, and the next meeting shall be held on the date of the meeting of the next meeting of the Committee.

Section 5 - Election of Members

A resolution for the election of members shall be passed by a majority of the members of the Committee, and the members so elected shall be eligible for re-election. The Secretary shall be the person who shall be elected to the office of Secretary, and the members of the Committee shall be eligible for re-election.

Section 9 - Powers and Duties

The members of the Committee shall be entitled to attend all meetings of the Committee, and shall be entitled to vote at such meetings. The members of the Committee shall be entitled to receive notice of all meetings of the Committee, and shall be entitled to receive notice of all meetings of the Committee. The members of the Committee shall be entitled to receive notice of all meetings of the Committee, and shall be entitled to receive notice of all meetings of the Committee.

Section 10 - Resignation

The Executive Committee may accept or reject any resignation of a member of the Committee, and may accept or reject any resignation of a member of the Committee. The Executive Committee may accept or reject any resignation of a member of the Committee, and may accept or reject any resignation of a member of the Committee. The Executive Committee may accept or reject any resignation of a member of the Committee, and may accept or reject any resignation of a member of the Committee.

in the Society and Chapter. He shall receive the duties
of the President in the event of the President's inability to
act.

The Secretary-Treasurer shall keep the official records
of the Chapter, collect and keep the money reported from
and dues collected under Section 2 and 10 of these By-Laws,
and any funds which may be allotted to the Chapter.
The Secretary-Treasurer shall have authority to receive
all things which are necessary, and shall receive a receipt
therefor and shall be answerable to the Chapter meeting.
He shall perform such other duties as may be required by the
Secretary-Treasurer, the Officers and Fellow Society and of
the National Society.

Section 6 - Executive Committee

The Executive Committee, the Chapter shall
consist of the President, Vice President, Secretary-Treasurer,
the immediate past President and the immediate past
Chairman of the Chapter (Committee). The Executive Committee
shall be organized for the Chapter between meetings
and to perform of the duties and functions.

Section 7 - Chapter (Committee)

(Committee and Chairman of Committee shall
in Section 5 and 6 of these By-Laws, may be appointed by the
President or may be necessary for the conduct of the Chapter
functions. Standing Committee shall include: Auditing,
Professionals, Standards, Nominating, Resolutions, Program and
Membership.

The Handbook of the program contains the

Executive Committee and the program committee shall be made to each member at least one month before the date of such meeting.

The business meeting and the meeting of the Executive Committee shall be held at the time of the annual meeting. The business meeting will be conducted in accordance with the Robert's Rules of Order.

Section 4-0 There

The officer to the Chapter shall remain a President, Vice President, and a Secretary-Treasurer.

There shall be a list of the names of the members of the meeting.

The Secretary-Treasurer may hold office for a period longer than one year, but the term of the Secretary-Treasurer shall be one year. In case of a vacancy in the position, the Executive Committee shall appoint a qualified replacement to hold office for the term.

In the event of a vacancy in the office of the Secretary-Treasurer, the officer and the members may determine their office to continue to serve until the next scheduled meeting.

Section 5-0 Duties of Officers

The President of the Chapter shall preside at all meetings, shall preside over the business of the Executive Committee, and shall represent the Chapter to the next level of organization and to the American Federation of Teachers, and shall make such arrangements and perform the duties and functions as are authorized and necessary.

The Vice President shall be Chairman of the members and shall serve the same functions as shall be to promote the interests of the members.

Section 3 - Meetings

The Chapter shall hold at least one meeting annually at a time and place designated by the Executive Committee. The annual meeting shall be held in a Friday and Saturday in November, December or January, at a time and location

of any one or more of these days as in Article 4 of a general order given a full calendar year. The meeting shall be held at the residence of the Treasurer. Annual dues for Active and Associate members shall be \$2.00 payable at the beginning of the year. The dues for Active and Associate members shall be \$2.00 payable at the beginning of the year. The dues for Active and Associate members shall be \$2.00 payable at the beginning of the year. The dues for Active and Associate members shall be \$2.00 payable at the beginning of the year.

(a) Active Member: Any member who is present at the annual meeting may give his proxy in writing to another member. Proxy vote may be authorized by the member.

(b) Associate Member: Any non-member who is present at the annual meeting may give his proxy in writing to another member. Proxy vote may be authorized by the member.

(c) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(d) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(e) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(f) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(g) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(h) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(i) Honorary Member: Provided with the endorsement of the members, except to the Chapter Executive Board, and cannot hold office.

(Prepared by Robert Zeller, Spring 1968)

Drawn up by Bob Zeller with some modifications from that paper by [unclear]

Section 1 - Name and Objectives

1. The name of the organization shall be the New York Chapter of the American Fisheries Society, and hereinafter referred to as the Chapter.

2. The objectives and purposes of the Chapter shall be, generally, to promote the conservation, development and use of the fisheries of the State of New York:

(a) To promote the conservation, development and use of the fisheries, both recreational and commercial

(b) To promote and advance the development and application of fisheries from the

of fisheries and practice, including aquaculture, biology, engineering, economics, fish culture, limnology, oceanography, and technology.

(c) To get together and discuss with the members and other interested persons, fishing, fishing, and other fisheries activities, and to promote the conservation and development of the fisheries.

(d) To hold meetings for the promotion, exchange and discussion of information, techniques, and experiences with subjects and the progress related to fishing, fishing, fishing, fishing and all other fishing activities and practice.

(e) To encourage the teaching of all fishing activities and the training of key men from inland states, rivers, streams and lakes.

(f) To establish and maintain highest professional standards and to recognize outstanding work and effort in the profession.

(g) To promote the understanding of the many related subjects in the broad field of natural resource management

(h) By our activities and membership, to promote the conservation and development of the fisheries and other resources of the State of New York.

Section 2 - Membership and Dues

1. The membership of the Chapter shall be of the following classes:

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cc: C. J. D. Brown
R. M. Jenkins
E. L. Cooper
C. J. Campbell
E. A. Seaman
R. E. Johnson
R. M. Bailey
K. D. Carlander

Frank Grice
H. M. Nichols
C. W. Threinen
G. E. Gunning
D. W. Chapman
D. H. Wallace

RFH:eg

Robert F. Hutton
Executive Secretary

Sincerely yours,
[Signature]

Thank you for your letter of January 19, 1970, and the ten (10) copies of the proposed Bylaws of the New York Chapter of the American Fisheries Society. I am transmitting a copy of your letter and a copy of the proposed Bylaws to each member of the AFS Executive Committee along with a copy of this letter. Also, I am placing the proposed bylaws on the agenda for action by our Executive Committee on March 24, 1970, at our semi-annual meeting in Chicago, Illinois.

Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
89 Lake Street
Saranac Lake, New York 12983

January 27, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY

ADDRESS OF THE SECRETARY
SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

PHONE: (202) 347-9717

AMERICAN FISHERIES SOCIETY
ORGANIZED 1870 | INCORPORATED 1910



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Zoology and Entomology Department
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ROBERT M. JENKINS, President-Elect
Nat'l. Reservoir Research Prog., BSF&W
113 South East Street
Fayetteville, Arkansas 72701
EDWIN L. COOPER, 1st Vice-President
815 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802
C. J. CAMPBELL, 2nd Vice-President
Chief, Fishery Division
State Game Commission, P.O. Box 8508
Portland, Oregon 97208
Division Presidents
W—Charles J. Campbell, Oregon
N—Frank Cross, Kansas
NE—Dwight A. Webster, New York
S—Hudson M. Nichols, Tennessee
Editor
Gerald E. Gunning, Louisiana



The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3 of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

Section III - Amendments of the By-Laws

Collections shall be made by the Secretary-Treasurer and disbursements shall be made for financing the Chapter operations, as may be directed by the membership or by the authorization of the Executive Committee.



The Executive Committee may assess each registrant attending annual meetings of the Chapter a registration fee necessary to cover the costs of the meeting and Chapter activities; however, all efforts shall be made to have the annual membership dues cover such costs.

Section 10 - Registration

Business shall be one-third of the Chapter voting membership. A quorum at any meeting for the transaction of official business shall be one-third of the Chapter voting membership. A voting member who is unable to be present at the annual meeting may give his proxy in writing to another member. A unanimous vote shall be required; and excepted further, a unanimous vote shall be required for the election of honorary members. A two-thirds majority shall be required for amendment of By-Laws, a two-thirds majority shall be required for a majority of those present at any meeting; except that for a motion for amendment of By-Laws, a two-thirds majority shall be required.

Section 9 - Voting and Quorum

Decisions at meetings, including election of members, shall be by a majority of those present at any meeting; except that for a motion for amendment of By-Laws, a two-thirds majority shall be required. Applications for all classes of American Fisheries Society memberships may be received by the Secretary-Treasurer of the Chapter and shall be forwarded to the Executive Secretary of the Society.

Section 8 - Election of Members

Application for all classes of American Fisheries Society memberships may be received by the Secretary-Treasurer of the Chapter and shall be forwarded to the Executive Secretary of the Society. The terms of office for members of the Chapter Committees shall end upon the discharge of the duties for which they were appointed, or at the next annual meeting of the Chapter, whichever comes first. Nominating, Resolutions, Program and Membership.

Standing Committees shall include: Auditing, Professional Standards, as may be necessary for the conduct of the Chapter activities.



Section 5 and 6 of these By-laws, may be appointed by the President

Committees and Chairmen of Committees except as listed in

Section 7 - Chapter Committees

to perform appropriate duties and functions.

Committee is authorized to act for the Chapter between meetings and

President and the Chairman of the Program Committee. The Executive

President, Vice-President, Secretary-Treasurer, the immediate past

The Executive Committee of the Chapter shall consist of the

Section 6 - Executive Committee

the Secretary-Treasurer of the Northeast Division.

the Executive Secretary of the American Fisheries Society and of

ter meeting. He shall perform such duties as may be requested by

submit a record of receipts and disbursements at the annual chap-

shall disburse funds as may be authorized and necessary, and shall

funds which may be allotted to the Chapter. The Secretary-Treasurer

dues collected under Section 2 and 10 of these By-laws, and any

of the Chapter, collect and be custodian of registration fees and

The Secretary-Treasurer shall keep the official records

event of the President's inability to act.

and Chapter. He shall assume the duties of the President in the

committee whose duty shall be to promote membership in the Society

The Vice-President shall be Chairman of the membership

duties and functions as are authorized and necessary.

eries Society, and shall make such appointments and perform other

sent the Chapter to the Northeast Division and to the American Fish-

shall serve as the Chairman of the Executive Committee, shall repre-

The President of the Chapter shall preside at all meetings,

Section 5 - Duties of Officers

until the next scheduled meeting.

Officers and the members of any committees shall continue to serve

In the event of a cancellation of an annual meeting, the

a qualified replacement to fill an unexpired term.

case of a vacated position, the Executive Committee shall appoint

years, but the term of the other officers shall be one year. In

Secretary-Treasurer may hold office for a period of two consecutive

Officers shall be elected at the annual meeting. The sec-

Vice-President, and a Secretary-Treasurer.

The officers of the Chapter shall consist of a President,

Section 4 - Officers

be conducted in accordance with Robert's Rules of Orders.

held at the time of the annual meeting. The business meeting will

The business meeting and election of officers shall be

at least one month before the date of such meeting.

the annual meeting of the Chapter shall be mailed to each member

time and place designated by the Executive Committee. Notice of

The Chapter shall hold at least one meeting annually at a

Section 3 - Meetings

automatically cease.

whose dues are in arrears by April 1 of a given calendar year shall

application for membership is accepted. The membership of anyone

each calendar year. Dues of new members shall be payable when

membership shall be two dollars (\$2.00) payable at the beginning of

Section 2 - Membership and Dues

1. The membership of the Chapter shall be of the following

classes:

(h) By such other means as may be appropriate, to unite and encourage these interested in fishes, fishing, fisheries and all other phases of fishery science and practice.

(a) Active Member: Any voting member of the American

Fisheries Society in good standing residing in the State of New York

(b) Affiliate Member: Any non-member of the American

~~Fisheries Society shall be entitled to all the rights and privileges of Active members, except they cannot vote on Chapter business affairs and cannot hold office. Nominations for Affiliate membership shall be submitted to the Secretary with the endorsement of one Active member of the Chapter and shall be accepted or rejected by the membership committee.~~

(c) Honorary Member: Persons who, by a unanimous vote of

the members of the Chapter, are recognized by reason of professional

or other attainments. There shall be two classes of honorary mem-

bership: (1) Exofficio and (2) Distinguished Service. Honorary

members shall be entitled to all the rights and privileges of Active

Members, except that Exofficio members cannot vote on Chapter busi-

ness affairs and cannot hold office.

(d) Student member: Any student member of the American

Fisheries Society in good standing residing in the State of

2. Dues - Annual dues for Active Student, and Affiliate

New York

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8/1

PROPOSED BY-LAWS OF THE

NEW YORK CHAPTER OF THE AMERICAN FISHERIES SOCIETY

Section 1 - Name and Objectives

1. The name of this organization shall be the New York Chapter of the American Fisheries Society, hereinafter referred to as the Chapter.

2. The objectives and purposes of the Chapter shall be, particularly within the State of New York,

(a) To promote the conservation, development and wise utilization of the fisheries, both recreational and commercial.

(b) To promote and advance the development and application of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanography, and technology.

(c) To gather and disseminate technical and other information on fishes, fishing, fisheries, and all phases of fishery science and practice.

(d) To hold meetings for the presentation, exchange and discussion of information, findings and experiences on all subjects and techniques related to fishes, fishing, fisheries and all phases of fishery science and practice.

(e) To encourage the teaching of all phases of fishery science and the training of fishery workers in accredited universities and colleges.

(f) To establish and maintain highest professional standards and to recognize outstanding work and effort in the profession.

(g) To promote the understanding of the many related

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CONSERVATION

cc: C. J. D. Brown
F. Grice

RFH:eg

Robert F. Hutton
Executive Secretary

RFH

Sincerely yours,

This is to inform you that the American Fisheries Society Executive Committee did not approve the New York Chapter Bylaws as submitted. The Executive Committee did not feel that it could approve the proposed section "Affiliate Member." It was pointed out that chapter, division, and parent society meetings encourage attendance and participation by non-members. But, non-members cannot vote on business affairs or hold office. It was felt that the approval of "Affiliate Member" could hurt overall membership in the Society. I have modified your Bylaws in a manner that I believe would be approved by the AFS Executive Committee. Thus, if the New York Chapter approves the modified Bylaws and re-submits them, I believe they will be accepted.

Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
New York Conservation Department
Division of Fish and Game
Albany, New York 12226

April 1, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY

ADDRESS OF THE SECRETARY
SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

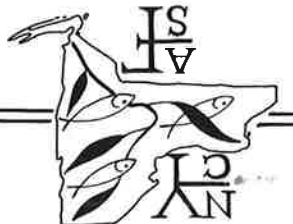
PHONE: (202) 347-9717

AMERICAN FISHERIES SOCIETY
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Zoology and Entomology Department
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Bozeman, Montana 59715
 - ROBERT M. JENKINS, President-Elect
Nat'l. Reservoir Research Prog., BSF&W
 - EDWIN L. COOPER, 1st Vice-President
115 South East Street
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 - C. J. CAMPBELL, 2nd Vice-President
315 Life Science Building
University Park, Pennsylvania 16802
 - Chief, Fishery Division
State Game Commission, P.O. Box 8508
Portland, Oregon 97208
 - Division Presidents
W—Charles J. Campbell, Oregon
NC—Frank Cross, Kansas
NE—Dwight A. Webster, New York
S—Hudson M. Nichols, Tennessee
 - Editor
Gerald B. Gunning, Louisiana





NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY

October 30, 1970

Dr. Robert F. Hutton
Executive Secretary
American Fisheries Society
Suite 1040, Washington Building
15th and New York Avenue, N.W.
Washington, D. C. 20005

Dear Bob:

I want to thank you for your informative letter of September 25 relating to our membership problem. While our Executive and Bylaws Committee members have been given copies for their review, we would like to take advantage of your offer to meet with us prior to our annual meeting to discuss the subject further in the hope of working out a solution to the problem.

Our meeting this year is going to be held at the Gotham Motor Inn, Syracuse, New York from 10 A.M., Friday, December 4 to 1 P.M., Saturday, December 5. If it is convenient for you, we could plan to arrive late in the afternoon of December 3, have dinner together and discuss the bylaws later in the evening.

If you let me know what your schedule will be, we will make reservations for you at the Gotham Inn.

I am enclosing a program prospectus. As soon as a formal program is printed we'll send you a copy.

We appreciate your kind words relative to the Gen-temial but don't underestimate the major role that you played in its success. I hope you took at least a brief vacation after it was over.

Sincerely yours,
Paul C. Neth

Paul C. Neth
President, New York Chapter
American Fisheries Society

PCN/ja
Enc.

WAR:jp

William A. Flick
Research Associate
Fishery Biology

Sincerely yours,

After reading Bob Hutton's letter I would gather they would be little gain by discussing this matter in further detail with him but do wonder if we would not do well to discuss this with some of the other chapters here in the Northeast. Possibly you will be attending some of these meetings and could bring the subject up at that time.

If the New York Chapter decides not to have an "affiliate member" category I think it should be stressed when the program for the annual meeting is made up that the meeting will be open to all fisheries workers regardless of whether they are members of the Chapter or not.

I have read over the comments from Bob Hutton regarding the New York Chapter Bylaws and although I still do not agree with his stand I suspect that there is little we can do at this point. His suggestion regarding having a registration fee at our regular meetings, which would be open to all, sounds like one way to get out of our present problem. If you, or the other members of the Executive Committee feel we should take a stand on this problem I would go along with you. If the consensus however, that we should go along with the suggestion of Bob Hutton I would conform with these wishes.

Dear Paul:

Dr. Paul C. Neth
President, N.Y. Chapter
American Fisheries Society
c/o N.Y.S. Department of
Environmental Conservation
50 Wolf Road
Albany, New York 12201

November 2, 1970

CONSERVATION DEPARTMENT
RECEIVED
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BUREAU OF FISH
-RESEARCH-



c. The committee shall act as the elections committee by receiving and counting the ballots and installing the newly elected officers at the May business meeting.

2. Program Committee

a. The program committee shall consist of the chairman (a,3,b,3) and two (2) members appointed by the President.

b. The committee shall be responsible for the formulation and implementation of the speakers, business and social programs for the year.

3. Resolutions Committee

a. The Resolutions Committee shall consist of the chairman (a,3,d,2) and two (2) members appointed by the President.

b. The Resolutions Committee shall seek out the opinions of the Chapter's membership on matters of local, state, national and international affairs concerning the fishery resource. They shall formulate these opinions into resolutions. The presentation of these resolutions shall be at the discretion of the membership.

4. Membership Committee

a. The Membership Committee shall consist of the chairman and two members appointed by the President.

b. The Membership Committee shall be responsible for maintaining the membership of the Society and for postulating new members to the Society.

5. Other committees shall be appointed by the President as the need arises.

Section 5 - Meetings

One (1) business meeting will be held each May. The time, place, and program of all meetings is the responsibility of the program committee.

Section 6 - Voting and Quorum

Decisions at meetings of the Chapter shall be in accordance with Article IV, Paragraph 4, of the Constitution of the American Fisheries Society.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter membership.

Section 7 - Finances

The membership shall be responsible for establishing the level of dues and special fees for operation of the Chapter.

Section 8 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3, of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

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Eleventh main paragraph of text, very faint.

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a) He shall assess the membership for dues and special fees.

b) He shall meet the financial obligations of the Chapter by direction of the executive committee.

4) The Secretary-Treasurer shall be chairman of the membership committee.

d. Executive-Committee-Members-Elect

1) The Executive-Committee-Members shall be present at all executive committee meetings, and each shall share an equal vote with each the President, Vice-President, and the Secretary-Treasurer.

2) In the first year of the Executive-Committee-Member's term he shall be chairman of the resolutions committee.

3) In the second year of the Executive-Committee-Member's term he shall be chairman of the nominations and elections committee.

e. The Executive committee shall be responsible for the administrative operation of the Chapter's affairs.

5. Term of Office

a. The President shall be elected to serve a term of one (1) year.

b. The Vice-President shall be elected to serve a term of one (1) year.

c. The Secretary-Treasurer shall be elected to serve a term of one (1) year.

d. The Executive-Committee-Members-Elect shall be elected to serve a term of two (2) consecutive years. Their terms shall be staggered so that in the initial elections, one member shall be elected for one (1) year and one member shall be elected for two (2) years. In all future elections only one executive committee member shall be elected. He shall be elected to serve a term of two (2) years.

6. Election of Officers

The officers shall be elected annually by the membership by means of a mail ballot.

Section 4 - Committees

1. Nominations and Elections Committee

a. The Nominations and Elections Committee shall be comprised of a chairman (A,3,d,3), and two (2) members appointed by the President. One such member shall be a student member.

b. The committee shall present a slate of nominees to the membership by mail ballot during April of each year. The slate shall consist of at least two (2) members and provision for a write-in for each office.

Proposed By-Laws for the Central Penn Chapter
of the American Fisheries Society

Section 1 - Name and Objectives

The name of this organization shall be the Central Penn Chapter of the American Fisheries Society, and herein after referred to as the Chapter.

The objectives of the Chapter shall be those of the American Fisheries Society as set forth in Article I of the constitution, and to encourage the exchanges of information by members of the Society residing within the

Central Pennsylvania.

Section 2 - Membership

The membership of the Chapter shall be composed of those American Fisheries Society members in good standing residing in the Central Pennsylvania.

Section 3 - Officers

1. The officers shall include a President, Vice-President, Secretary-Treasurer and two (2) Executive Committee Members Elect.

2. The officers shall comprise the five (5) man executive committee.

3. Duties and Responsibilities

a. President

1) The President shall preside over and be responsible for the conduct of all meetings of the Chapter.

2) The President shall preside over and be responsible for the conduct of all executive committee meetings.

3) The President shall be the official voice of the Chapter.

b. Vice-President

1) The Vice-President shall assume the responsibilities of the President in the absence of the President.

2) The Vice-President shall be chairman of the program committee.

c. Secretary-Treasurer

1) The Secretary-Treasurer shall keep a transcript of all executive committee and general business meetings.

2) The Secretary-Treasurer shall be responsible for the correspondence of the Chapter.

3) The Secretary-Treasurer shall be responsible for the treasury of the Chapter.

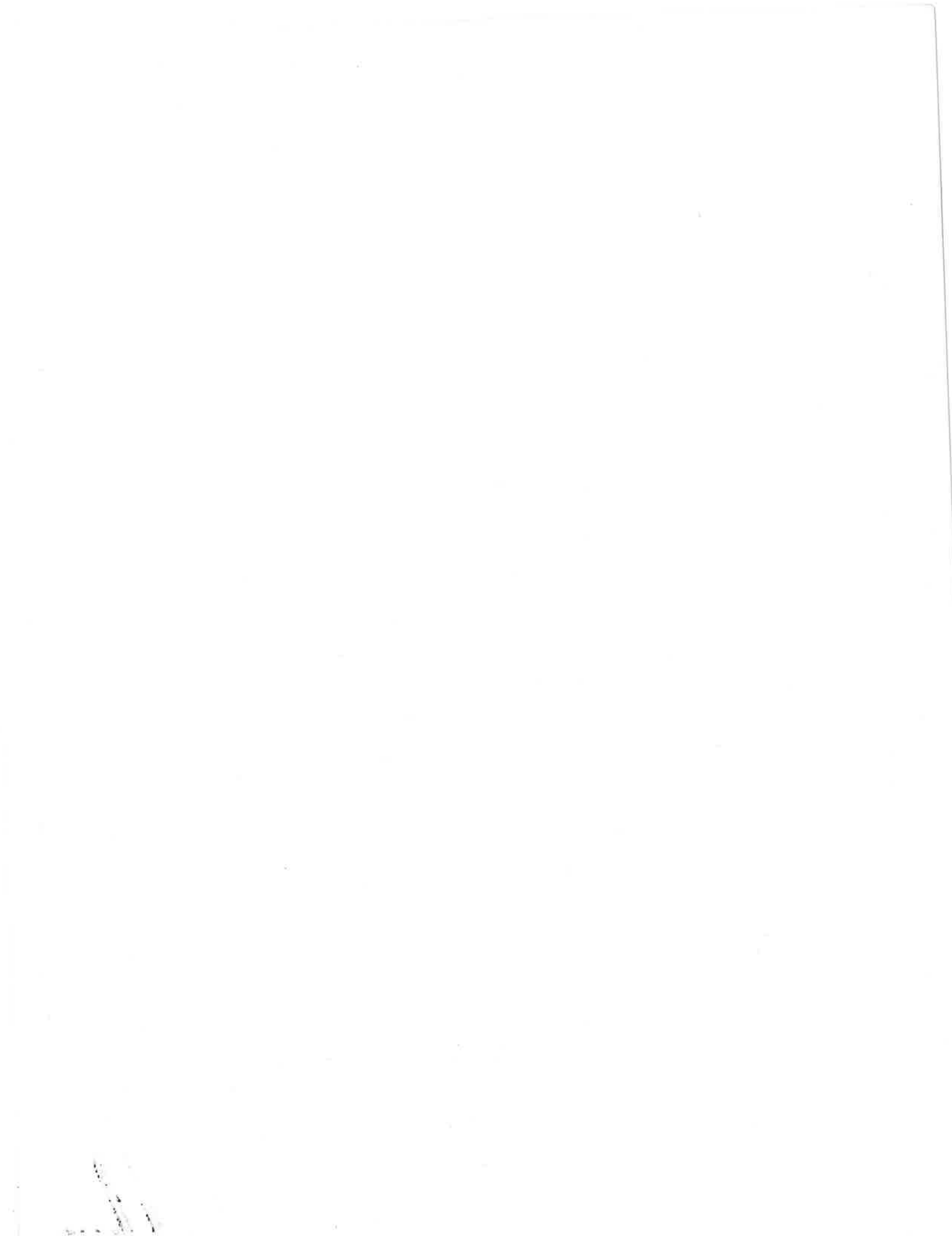
1. Introduction

The purpose of this study is to investigate the effects of various factors on the performance of a system. The study is divided into two main parts: a theoretical analysis and an experimental investigation. The theoretical part focuses on the development of a model that describes the relationship between the input variables and the output performance. The experimental part involves the design and execution of a series of tests to validate the model and to determine the range of conditions over which it is applicable. The results of the study are presented in the following sections.

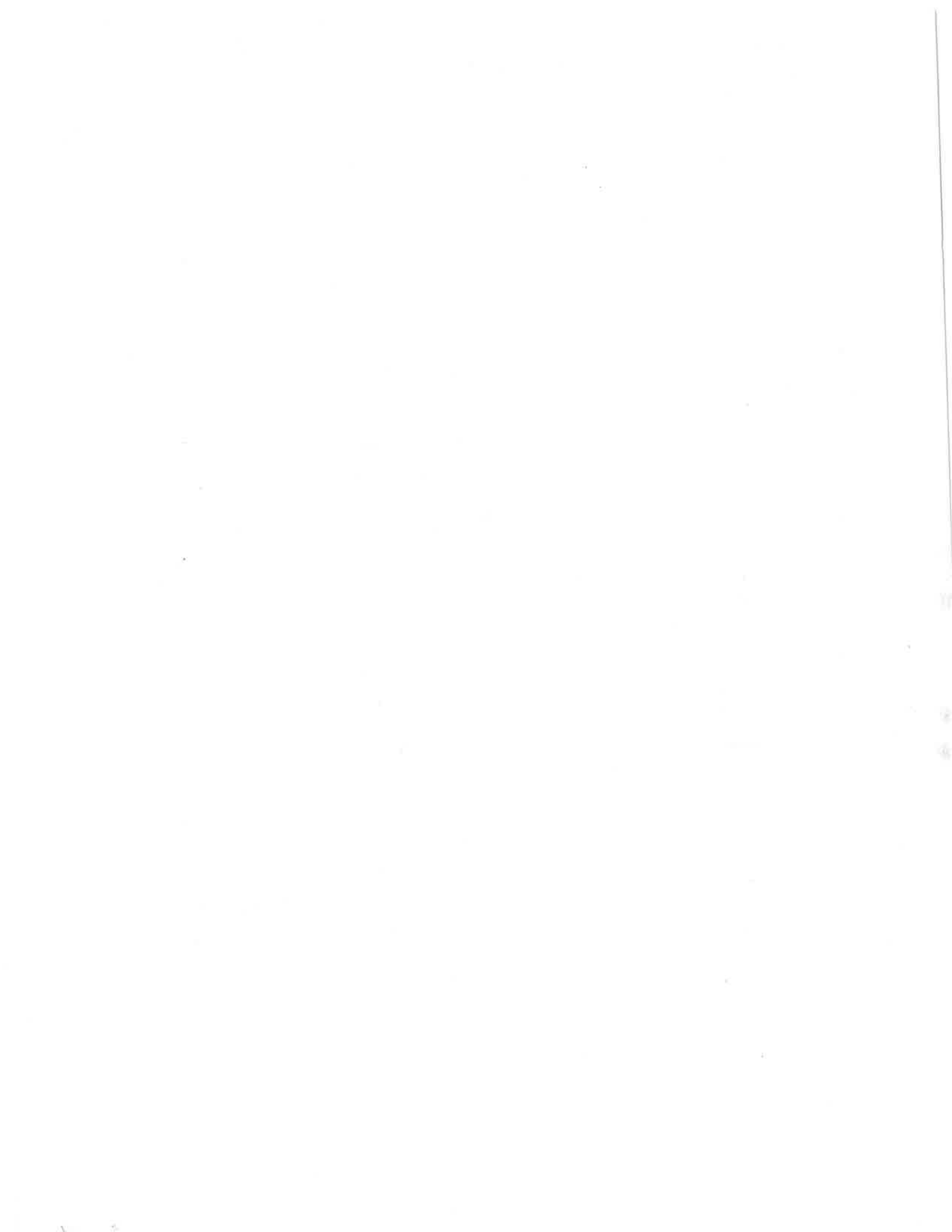
The first section of the study is a review of the literature on the subject. This section identifies the key concepts and theories that are relevant to the study. The second section is a description of the system under investigation. This section provides a detailed account of the system's components and its operating principles. The third section is a description of the experimental methodology. This section details the design of the experiments, the data collection procedures, and the methods used for data analysis.

The results of the study are presented in the following sections. The first section is a summary of the findings. This section provides a concise overview of the main results of the study. The second section is a detailed discussion of the results. This section provides a thorough analysis of the data and discusses the implications of the findings. The third section is a conclusion. This section summarizes the main findings of the study and provides recommendations for future research.







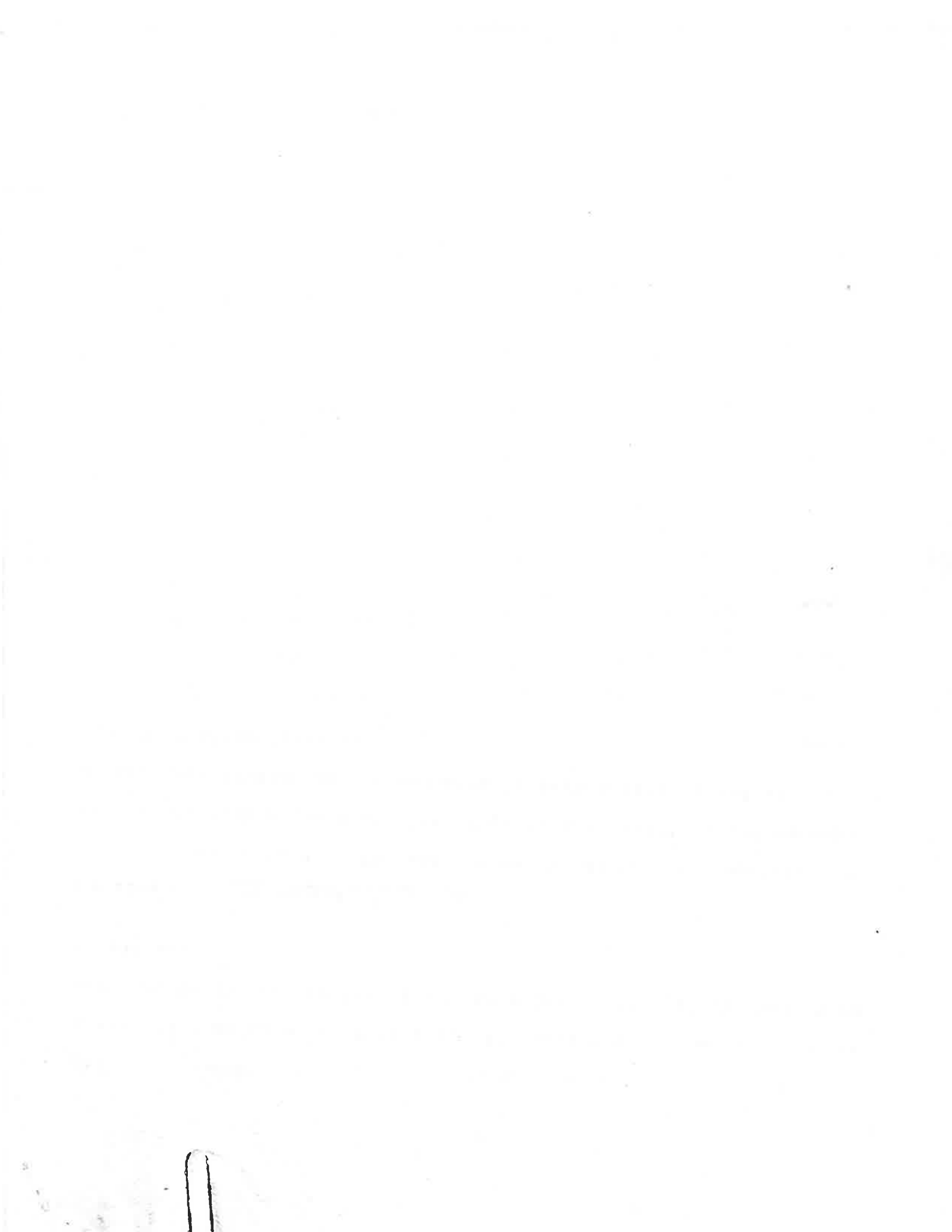


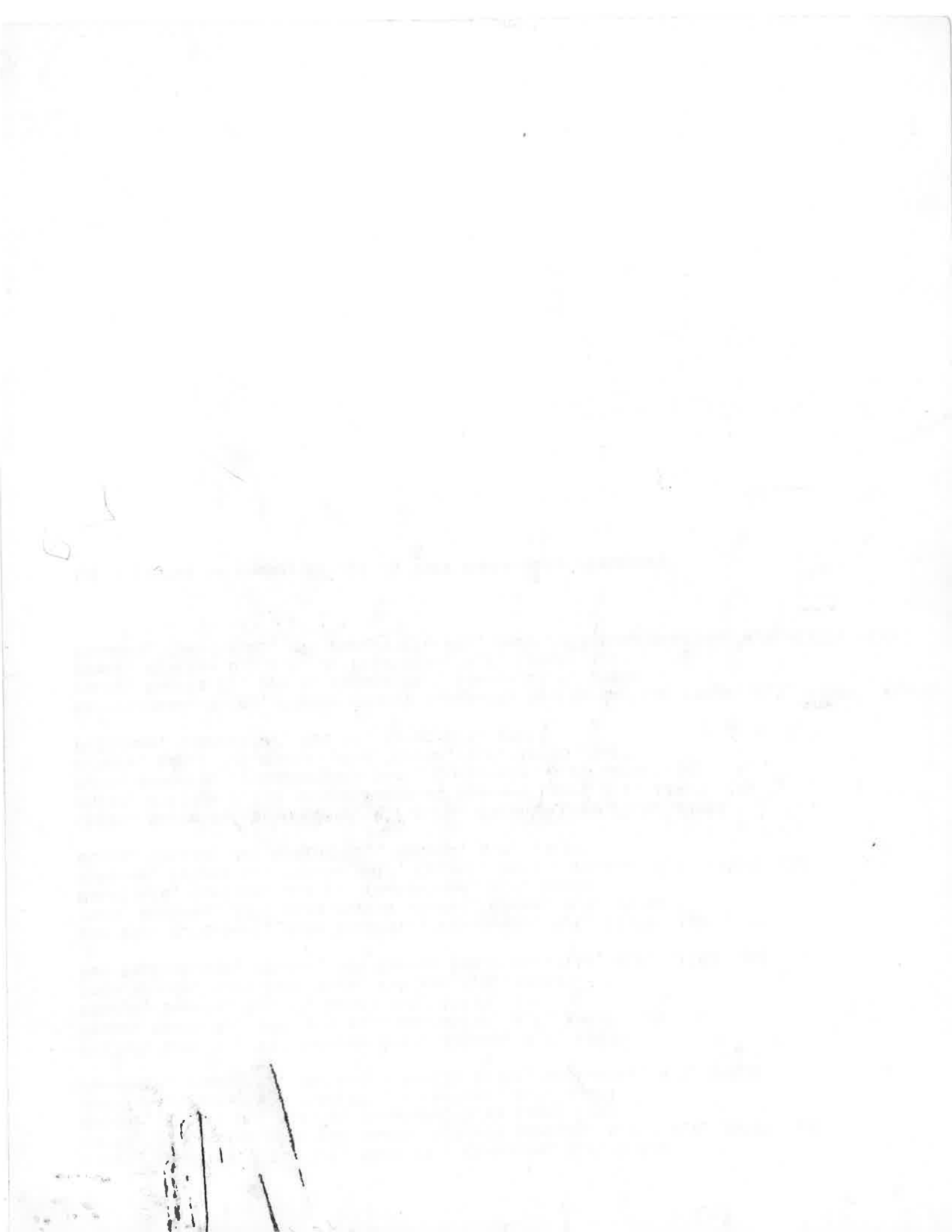






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the President not later than sixty days before the annual meeting.
Section VII. Special Committees. The President may appoint any additional committees deemed advisable to carry on the functions of the Chapter.

Article VI. Responsibilities of Standing Committees. Section I. The Executive Committee. This committee, under the chairmanship of the President, shall be empowered to act between annual meetings of the Chapter to conduct the business of the Chapter. Any action of the Committee may be overridden by a two-thirds majority vote of the full membership.

Section II. Nominating Committee. This committee shall prepare a ballot of eligible members for office, and after determining their willingness to serve, submit their recommendations to the President at least sixty days before the annual meeting. The ballot is to be announced to the membership at the time of the program announcement for the annual meeting.

Section III. Auditing Committee. This committee shall audit the financial records of the Secretary-Treasurer and report to the membership at the annual meeting.

Section IV. Membership Committee. This committee shall endeavor to get the maximum number of qualified persons residing in New York to become members of The Wildlife Society and of its New York Chapter.

Section V. Program Committee. This committee shall arrange the program of the annual meeting and any additional meetings. A program announcement of the annual meeting must be sent to the membership at least one month prior to the meeting.

Section VI. Resolutions Committee. This committee shall receive resolutions at any time from the members and submit the prepared resolutions for endorsement by the membership at the annual meeting.

Section VII. Special Committees. At the direction of the President any special committees shall carry on the duties designated.

Article VII. Meetings. Section I. Annual Meeting. There shall be an annual meeting of the New York Chapter of The Wildlife Society.

Section II. Time. The annual meeting shall be held on a Friday and Saturday in November or December, at a time and location to be selected on recommendation of the Program Committee at the preceding annual meeting. A written notice of each annual meeting of the Chapter shall be mailed to each member at least one month before the date of the meeting.

Section III. Business Meeting and Election of Officers. The business meeting and election of officers shall be held on Friday evening at the annual meeting.

2.

Section V. Dues. Annual dues of not more than two dollars (\$2.00) shall be payable to the Secretary-Treasurer no later than January 1 of any fiscal year. Changes in the annual dues, subject to the \$2 limitation, shall be made at the business meetings or by the Executive Committee. Full members who have not paid parent Society dues by December 31 following billing shall lose their rights and privileges of membership. The fiscal year shall begin the first day of the annual meeting and end the day before the next annual meeting.

Section VI. Proxies. A member who is unable to be present at the annual meeting may give his proxy in writing to another member. Proxy voting may be as instructed in writing. Since proxy votes will be cast in a new fiscal year, members sending proxy votes must also send dues for this new fiscal year. Proxy votes may be submitted only by full members who have been in good standing at least the previous fiscal year.

Article III. Officers. Section I. The officers of this organization shall be President, Vice-President, and Secretary-Treasurer.

Section II. Term. The term of office shall be for approximately one year for all offices, the term beginning immediately after the next annual meeting and terminating at the conclusion of the annual Chapter meeting and terminating at the conclusion of the next annual meeting. The President shall not serve more than two consecutive terms.

Section III. Unexpired terms. If the office of the President shall be vacated for any reason before the end of the term, the unexpired portion of that term for that office will be filled by the Vice-President. In the event the office of the Secretary-Treasurer or the office of the Vice-President is vacated for any reason prior to the expiration of the term, the unexpired portion of that term will be filled through appointment by the current Nominations Committee.

Section IV. Duties of Officers. President. The President shall have a general supervision of the Chapter officers. He shall appoint chairmen of all regular and special committees, and he shall preside at meetings of the Executive Committee, and shall be ex-officio a member of all committees except the Nominating Committee. He shall represent the Chapter or appoint alternate representatives to Section or parent Society meetings.

Vice-President. The Vice-President shall assume the duties of the President in his absence or upon his inability to serve, and shall perform any duties assigned by the President. In the event the Vice-President cannot serve as the President, the Executive Committee shall appoint a President pro tempore.

Secretary-Treasurer. The Secretary-Treasurer shall be responsible for the Chapter files, records, and funds, and he shall submit complete financial reports to the last meeting of his term of office. His duties shall include the receipt and disbursement of funds, the recording of the minutes of all meetings, the maintenance of the membership rolls, correspondence, and the issuance of meeting

Article VII Section IV Quorum, which is new, replaces the present Section III IV Membership Fee, which will appear as Section III of Article II. The requirements for a Quorum are those recommended by the Wildlife Society Council.

Article VIII Section I is new

The new Section II changes would replace the present Section I. In view of the small numbers which may constitute a quorum under Article VII Section IV, your Committee recommends that By-Laws be changed in the future only by action of a majority of the full membership, who would have to be polled by written ballot.

Comments on the Proposed Changes in the By-Laws, New York Chapter,
The Wildlife Society

Items proposed for change are discussed below.

Article I Section II

- 4. is new, recommended by the Council.
- 5. is new, recommended by the Council.

Section III is new.

Article II changed to read---- and Dues
Section I is new, revising the present Section I

Section II is new changing the present Associate Membership to
Affiliate Membership.

Section III is new, defining Charter Members.

Section IV is new, describing Honorary Members.

Section V Dues replaces Article VII, Section IV

Section VI Provides revises old Article II, Section II

Article III Section IV is new, defining duties of officers.

Article IV Section I Election by secret ballot is new.

Section II is revised to require two nominations for each
office to be submitted in the call for the meeting.

Section III is new

Section IV is new

Section V is the present Section III of this Article

Article V Section I Your Committee recommends that this immediate Past
President be included on the Executive Committee, to
take advantage of his experience. The State Represent-
ative has to be deleted, because under Article III
Section IV Duties of Officers, President, the President
represents the Chapter at Section or parent Society meet-
ings, unless he is unable to attend and appoints an altern-
ate to serve as the State Representative.

Section V is changed to require the President to appoint the Program
Committee within sixty days following his election.

Article VI Section I The sentence beginning "Any action of the Committee..."
is new.

Section II The last sentence is a rewording of the last part of the
present Section.

Section V The second sentence is new.

PESTICIDE TERMINOLOGY

The following resolutions were introduced by E. H. Wheeler, Professor of Entomology, Leader, Pesticide Chemicals Program, University of Massachusetts, for the Northeastern Pesticide Coordinators and adopted by the National Conference of Pesticide Coordinators at Fort Collins, Colorado, July 13, 1967.

Whereas: a more accurate knowledge and greater understanding by retailers, dealers and pesticide users of active ingredients in commercial products will lead to more intelligent selling and purchasing of pesticides as well as to safer, more effective usage and,

Whereas: under present procedures simple, nonproprietary common (generic) names or designations for pesticide chemicals usually are not proposed and approved or do not become officially acceptable and required in ingredient statements on labels until after the basic chemicals have been marketed in commercial formulations and,

Whereas: the need for common (generic) names for pesticide chemicals is widely recognized as evidenced by actions of the International Standards Organization, the British Standards Institution, the former Interdepartmental Committee on Pest Control, the K62 Committee of the United States of America Standards Institute, and the Committees on Terminology of such professional organizations as the Entomological Society of America, American Phytopathological Society and the Weed Science Society of American and,

Whereas: the desirability of employing common (generic) names for pesticide chemicals when communicating information about pesticides to the general public and to most pesticide retailers, dealers and applicators presently leads to hazard and confusing use of names that: (1) officially acceptable, simple designations which, by regulation, must appear on labels in ingredient statements, or (2) unofficial names or designations which are not allowable in ingredient statements and usually do not appear elsewhere on labels, and/or (3) trademarked or brand names which may or may not identify ingredients,

BE IT RESOLVED: that the Pesticide Regulation Division, USDA, be empowered and directed to develop procedures whereby a simple nonproprietary common (generic) name will be proposed, become officially acceptable and required in ingredient statements, for each pesticide chemical now an ingredient in any currently registered pesticide formulation or at the time the chemical is first included as an active ingredient in a product for which an application for registration and label approval or for a temporary permit and experimental label is submitted and,

BE IT FURTHER RESOLVED: that lists of names or designations officially acceptable for inclusion in ingredient statements on pesticide labels and properly identified, where necessary, with corresponding chemical definitions, be published annually and that new acceptances be announced promptly.

* * * * *

This resolution was brought about because of the serious confusion that names of pesticides have created.



M E M O R A N D U M

TO: Members, New York Chapter
FROM: Pesticides Committee
DATE: November 17, 1967

The attached resolutions are presented for your consideration at the 1967 annual meeting of The New York Chapter. These resolutions relate to regulation of pesticides and their containers, and support for them will promote better control over indiscriminate use of potentially harmful chemicals. Since time is short, the Pesticide Committee will review the origin and background of the resolutions at the business meeting.

A resolution on pesticide container disposal submitted by Dr. James E. (Jim) Dewey, and unanimously approved by the Pesticide-Chemical Coordinators at the recent National Pesticide Conference in Colorado, is given below:

"Be it resolved that the pesticide coordinators, in recognition of the serious and general problem of pesticide disposal, urge the National Agricultural Chemicals Association and ARS of the U.S. Department of Agriculture to instigate an immediate and active research program for the disposal of surplus pesticides and containers that can be used as a practical resolution of these disposal problems as they exist on the farm and in the home. We further urge attention to the use of possible alternate containers and/or the development of containers that are more easily and completely emptied."

M E M O R A N D U M

TO: Members, New York Chapter, The Wildlife Society

FROM: Herbert E. Doig

DATE: November 17, 1967

Enclosed you will find a brochure describing the program to be presented at the annual meeting of the New York Chapter on December 8 and 9. The Program Committee, working with the Program Committee of the Professional Fisheries Association, has done an excellent job collecting personalities who can contribute to the theme of professionalism. This theme is of critical importance to all of us at this time of change and challenge in the wildlife field. You should each plan to attend, bringing with you ideas and concerns in your area of resource interest.

As a part of this communication, you also find a copy of the By-Laws which will be presented at the business meeting for discussion and possible adoption. The By-Laws Committee has done a commendable job reviewing and criticizing the Chapter By-Laws, incorporating items included in the parent societies model By-Laws. Please review this material and be prepared to act upon it at the business meeting.

The Nominating Committee has presented a slate of officers for consideration by the membership at the Annual Meeting. This slate reads as follows:

- President
Herbert E. Doig
- Vice President
Bruce Wilkins
- Secretary-Treasurer
Lawrence Smith

Committee Chairman John Wilson expressed the following sentiment in his presentation of the slate. "We feel it is advisable to submit for consideration a single slate of officers rather than two slates as has been the practice in the past. The candidates for the above designated offices at the annual meeting."

You should be guided accordingly. Study committees on Pesticides and Training and Recruitment have been researching ideas in the areas of their concern and will be reporting at the annual meeting. I am sure that each member will be interested in progress being made.

The December meeting promises to be an interesting and informative one. All should plan to attend, bringing a fellow wildlifer.

Sincerely,
Herbert E. Doig
Herbert E. Doig, President

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

BY [Name] AND [Name]

DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS

19[Year]

AT THE UNIVERSITY OF CHICAGO

RESEARCH REPORT

NO. [Number]

19[Year]

CHICAGO, ILLINOIS

UNIVERSITY OF CHICAGO

JOINT MEETING ANNOUNCEMENT

FISH AND WILDLIFE RESOURCE CONFERENCE

SPONSORED BY

NEW YORK CHAPTER-THE WILDLIFE SOCIETY

PROFESSIONAL FISHERIES ASSOCIATION OF NEW YORK

PLACE: Syracuse Country House, Syracuse, New York - Thruway Exit 36.
Friday and Saturday, December 8 and 9, 1967
Telephone - 315-474-6851

SCHEDULE: Program opens Friday afternoon December 8, 1967 at 1:30 p.m.
Society and Association business meetings start at 4:45 p.m.
Banquet at 7:00 p.m. Saturday's program 8:45 a.m. - noon.

LODGING: Kindly make your own reservations. Syracuse Country House,
Thru-way Exit 36, Syracuse, New York. Single occupancy \$11.00
Double occupancy \$16.00, plus \$3.00 for additional person.

BANQUET: \$5.75 each including gratuity and tax. Fish - meat choice
available. Banquet fee will be payable at registration
December 8, 1967.

PROGRAM: Printed program to follow in near future. Concerns the many
phases of professionalism. Guest speaker - John Gottschalk,
Director, Bureau of Sport Fisheries & Wildlife.

FOR THE PROGRAM COMMITTEE

Paul C. Neth, Professional Fisheries Association of New York
Fred Slater, New York Chapter-The Wildlife Society

Conservation Department
RECEIVED
10/30 1970
Div. of Fish and Game
Coordinator
Hab. Mgt.



MESSAGE FROM THE PRESIDENT - 1970

Another year has passed! In less than three weeks from now, on December 4-5, the annual meeting of the New York Chapter of the American Fisheries Society will take place at the Gotham Inn in Syracuse. To highlight this year's meeting your Program Committee under the Chairmanship of Howard Loeb, has worked hard and imaginatively to develop a stimulating program around the subject of computers. Entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry", the program offers our members another opportunity to broaden their professional outlook as well as to participate in a demonstration of the practical application of computers to our field. It is also the time of the year that our members can renew old acquaintances, discuss the internal workings of the Chapter, its programs and their future direction and lay plans to keep the organization viable and effective in its drive to achieve its goals.

Other committees have worked diligently and the business session is expected to be informative as well as lively. Items to be discussed will include our participation in the upcoming Natural Resources Conference, licensing of fishery biologists in New York, status of the Careers in Aquatic Sciences film, the proposed awards systems and any items which you have been considering for the past year. A major decision will have to be made involving Section 2 of our proposed bylaws (Membership and Dues) as it relates to the "Affiliate" member category. The AFS Executive Committee did not approve this section as the constitution and bylaws of the parent society do not provide for this membership category.

Make your reservations now and come to have a good time. Many thanks for your help throughout the year and I'll see you at Syracuse.

Paul Neth

Conservation Department
RECEIVED
NOV 30 1970
Div. of Fish and Game
Coordinator Aquatic
Hab. Mgt.

5. The Secretary presented a brief report of his mailings during the year.
6. Unfinished Business - Al Ripper noted that the results of efforts to interest students in the Chapter were indicated by the number present - none.
7. New Business - President Flick offered some thoughts for consideration by the incoming officers:

- a. Assist in or conduct a field trip to view fisheries activities in the state before or after the meeting for participants in the Centennial meeting. Dr. Hutton described plans for the meeting and some of the problems facing the Society. Dr. Webster moved that the Secretary write to the co-chairmen of the Centennial Committee offering the Chapter's assistance in any way possible, but particularly in developing a tour of points of interest in the state. Motion passed.

- b. The Chapter should either take a more active role in or actually sponsor the unofficial newsletter now put out by the Bureau of Fish.

8. Dr. Dwight Webster presented the Chapter's charter from the parent society to President Flick.

9. Don Pasko, Chairman of the Nominating Committee, presented the following slate: President - Paul Neth; Vice President - Robert Griffiths; Secretary-Treasurer - Kenneth Wich. There being no nominations from the floor, it was moved and passed that the Secretary cast one ballot for this slate.

10. Paul Neth, newly elected President, thanked the members on behalf of the new officers; called for a round of applause for the outgoing officers and committee members and adjourned the meeting at 11:30 p.m.

Respectfully submitted,
Kenneth Wich, Secretary

(2) Standards For Fisheries Biologists in New York State - A majority of those canvassed favored licensing of biologists with the same qualifications for a license as those adopted by the parent Society. The outlook for licensing is dim, however. The Board of Regents has sole authority to issue licenses in this state and approve the licensing of groups on the basis of the welfare of the general public. The foresters have not been successful to date in moving four different bills out of legislature committee - partially because of interval disagreement on the need. An alternate to licensing is certification by the Dept. of State, such as is done for Notary Publics.

Based on the overwhelming support of the Chapter for the concept of licensing; the committee recommended that (a) an ad hoc committee be formed to further investigate the subject; (b) such a committee be Albany oriented and (c) the committee determine the feelings of University and Department administrators toward the subject. A motion to accept these recommendations was made by Leigh Blake and approved by a 42-2 show of hands.

(3) High School Recruitment Material - There are 1200 guidance personnel in the state with their own monthly organ. An article could be presented for this outlet. Career Brochures are available for distribution, but a major problem is a lack of display space in guidance offices. The Committee suggests the production of a career film as a better approach. Funds might be available from various sources, such as the Sportsmen's State Council, SFI and AFS. Tony Bonavist moved "that the New York State Chapter of the American Fisheries Society participate in the production of a full color sound film entitled 'Fisheries As A Profession'." Motion approved. The Committee recommended an ad hoc committee be formed to pursue this matter.

d. Martin Pfeiffer, Chairman of the Heraldic Committee, announced that the members had approved one of three proposed designs for lapel pins by mail ballot. Details of color, etc. remain and are to be resolved by the committee.

e. David Green, Chairman of the Resolutions Committee, presented one resolution recommending legislation to eliminate the use of chlorinated hydrocarbons by 1971 except under emergency conditions approved by the Departments of Health and Conservation and urging research by the State to develop alternate methods, safer pesticides and improved methods of pesticide application. Walter Kellar moved that the wording be amended to "safe pesticides". This motion was defeated. Howard Dean then moved the original resolution, which was passed.

f. Russ Fieldhouse presented the proposed by-laws prepared by the By-Laws Committee in the absence of Chairman John Gould. Each section was read, discussed, amended by motion where applicable and finally adopted by motion. By-laws must now be submitted to the Society for approval.

Minutes of Annual Meeting
New York Chapter, American Fisheries Society
Syracuse, N.Y. - December 4, 1969

1. The meeting was called to order at 8:40 p.m. by President William Flick. A quorum was present. One guest, Dr. Robert Hutton, was introduced. Irwin Alperin, President of the New England Chapter was invited, but received his invitation too late. He did agree that it would be beneficial to have chapter officers attend meetings of neighboring chapters. President Flick announced that he had attended the February Northeastern Division meeting in West Virginia and the September national meeting in New Orleans. He stated that three meetings of the Executive Committee had been held during the year and was sent to ten key legislators. He urged attendance at the Centennial meeting of the Society to be held in New York City in September, 1970.
2. Adoption of the minutes of the December 6, 1968 meeting was moved by Robert Van Wie and passed.
3. Treasurer Clifford Creech read his report. Balance on hand as of December 4, 1969 was \$439.36. Motion by Robert Harding to accept the Treasurer's Report was passed. Robert Brewer, Chairman of the Audit Committee, reported that the Treasurer's records were examined and found to be in order.

4. Report of Committees

- a. Al Eipper, Chairman of the Program Committee, offered to pass on suggestions and ideas to ease the next chairman's burden.
- b. Paul Neth, Chairman of the Membership Committee, reported the Chapter had gained one member for a new total of 101 in 1969. He cited new Department and Cornell personnel as a source of additional members.
- c. Steve Simkins, Chairman of the Professional Standards Committee, summarized the many activities of his group during the past year:

(1) Training Program For Fisheries Workers - Majority of those canvassed for opinion favored; contact with Cornell to explore possibilities revealed that a field training program for students was being developed and could be available to state workers. A. C. Petty moved "that the New York Chapter of the American Fisheries Society go on record as being in favor of a training program in New York State to improve the competence and working performance of technical fishery workers and other personnel who would benefit by attendance. Motion passed unanimously. In investigating the possibilities of upgrading sub-professional items in state service, the Committee learned of present Department efforts from Bureau Chief Carl Parker. The Committee recommended that the next committee investigate a proposal to allow advanced sub-professionals to qualify to enter the professional grades.

PCN/ja

Paul C. Neth, President
New York Chapter
American Fisheries Society

Sincerely yours,

I hope that the Executive Committee will look favorably upon this class of membership as well as the other sections of our Bylaws.

With regard to Section 2, paragraph 1(b) of our Bylaws which relates to an "Affiliate" member, we are hopeful that we can retain this classification. Within our State, we have a substantial number of fisheries technicians who want to be members of our Chapter, but because of low salaries, find it most difficult to pay dues to the parent Society. Most of our professional members feel a strong tie to the technicians because they are intimately involved in day-to-day fisheries programming. Thus we want to encourage their participation in Chapter business if for no other reasons than to create a new awareness on their part, of the problems facing fisheries resource managers and to broaden their overall professional outlook. We look upon this as an important function of our Chapter.

Enclosed are 10 copies of the proposed Bylaws of the New York Chapter of the American Fisheries Society. These Bylaws were adopted by our members on December 4, 1969, at our annual meeting at Syracuse, New York. As required under Article VI, paragraph 3 of the "Constitution of the American Fisheries Society", we are now submitting them for review by the Executive Committee of the Society.

Dear Bob:

Dr. Robert F. Hutton
Executive Secretary
American Fisheries Society
1040 Washington Building
Washington, D.C. 20005

January 19, 1970

Re Bylaws



- cc: C. J. D. Brown
- R. M. Jenkins
- E. L. Cooper
- C. J. Campbell
- E. A. Seaman
- R. E. Johnson
- R. M. Bailey
- K. D. Carlander

RPH:eg

- Frank Grice
- H. M. Nichols
- C. W. Threinen
- G. E. Gunning
- D. W. Chapman
- D. H. Wallace

Robert F. Hutton
Executive Secretary

[Handwritten Signature]
Sincerely yours,

Thank you for your letter of January 19, 1970, and the ten (10) copies of the proposed Bylaws of the New York Chapter of the American Fisheries Society. I am transmitting a copy of your letter and a copy of the proposed Bylaws to each member of the AFS Executive Committee along with a copy of this letter. Also, I am placing the proposed Bylaws on the agenda for action by our Executive Committee on March 24, 1970, at our semi-annual meeting in Chicago, Illinois.

Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
89 Lake Street
Saranac Lake, New York 12983

January 27, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY

PHONE: (202) 347-9717

American Fisheries Society
ORGANIZED 1870 | INCORPORATED 1910
ADDRESS OF THE SECRETARY
1515 R. I. ROAD, WASHINGTON, D. C. 20005
1515 R. I. ROAD, WASHINGTON, D. C. 20005

- OFFICERS**
- C. J. D. BROWN, President
Zoology and Entomology Department
Montana State University
Bozeman, Montana 59715
 - ROBERT M. JENKINS, President-Elect
Nat'l. Research Research Prog., BSF&W
113 South East Street
Fayetteville, Arkansas 72701
 - EDWIN I. COOPER, 1st Vice-President
815 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802
 - C. J. CAMPBELL, 2nd Vice-President
Chief, Fishery Division
State Game Commission, P.O. Box 3503
Portland, Oregon 97208
 - Division Presidents
W—Charles J. Campbell, Oregon
NC—Frank Cross, Kansas
NE—Dwight A. Webster, New York
S—Hudson M. Nichols, Tennessee
 - Editor
Gerald E. Gunning, Louisiana

Collections shall be made by the Secretary-Treasurer and disbursements shall be made for financing the Chapter operations, as may be directed by the membership or by the authorization of the Executive Committee.

Section 11 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3 of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

shall be made to have the annual membership dues cover such costs.
The costs of the meeting and Chapter activities; however, all effort
annual meetings of the Chapter a registration fee necessary to cover
The Executive Committee may assess each registrant attending

Section 10 - Registration

business shall be one-third of the Chapter voting membership.
A quorum at any meeting for the transaction of official
writing to another member.
unable to be present at the annual meeting may give his proxy in
for the election of honorary members. A voting member who is
required; and excepted further, a unanimous vote shall be required
motion for amendment of By-Laws, a two-thirds majority shall be
by a majority of those present at any meeting; except that for a
Decisions at meetings, including election of members, shall

Section 9 - Voting and Quorum

ter and shall be forwarded to the Executive Secretary of the Society
memberships may be received the Secretary-Treasurer of the Chap-
Application for all classes of American Fisheries Society

Section 8 - Election of Members

comes first.
appointed, or at the next annual meeting of the Chapter, whichever
shall end upon the discharge of the duties for which they were
The terms of office for members of the Chapter Committees
Nominating, Resolutions, Program and Membership.
Standing Committees shall include: Auditing, Professional Standards,
as may be necessary for the conduct of the Chapter activities.

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shall serve as the Chairman of the Executive Committee, shall represent the Chapter to the Northeast Division and to the American Fisheries Society, and shall make such appointments and perform other duties and functions as are authorized and necessary.

The Vice-President shall be Chairman of the membership committee whose duty shall be to promote membership in the Society and Chapter. He shall assume the duties of the President in the event of the President's inability to act.

The Secretary-Treasurer shall keep the official records of the Chapter, collect and be custodian of registration fees and dues collected under Section 2 and 10 of these By-Laws, and any funds which may be allotted to the Chapter. The Secretary-Treasurer shall disburse funds as may be authorized and necessary, and shall submit a record of receipts and disbursements at the annual Chapter meeting. He shall perform such duties as may be requested by the Executive Secretary of the American Fisheries Society and of the Secretary-Treasurer of the Northeast Division.

Section 6 - Executive Committee

The Executive Committee of the Chapter shall consist of the President, Vice-President, Secretary-Treasurer, the immediate past president and the Chairman of the Program Committee. The Executive Committee is authorized to act for the Chapter between meetings and to perform appropriate duties and functions.

Section 7 - Chapter Committees

Committees and Chairmen of Committees except as listed in Section 5 and 6 of these By-Laws, may be appointed by the President

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membership shall be two dollars (\$2.00) payable at the beginning of

each calendar year. Dues of new members shall be payable when

application for membership is accepted. The membership of anyone

whose dues are in arrears by April 1 of a given calendar year shall

automatically cease.

Section 3 - Meetings

The Chapter shall hold at least one meeting annually at a

time and place designated by the Executive Committee. Notice of

the annual meeting of the Chapter shall be mailed to each member

at least one month before the date of such meeting.

The business meeting and election of officers shall be

held at the time of the annual meeting. The business meeting will

be conducted in accordance with Robert's Rules of Orders.

Section 4 - Officers

The officers of the Chapter shall consist of a President,

Vice-President, and a Secretary-Treasurer.

Officers shall be elected at the annual meeting. The sec-

retary-Treasurer may hold office for a period of two consecutive

years, but the term of the other officers shall be one year. In

case of a vacated position, the Executive Committee shall appoint

a qualified replacement to fill an unexpired term.

In the event of a cancellation of an annual meeting, the

officers and the members of any committees shall continue to serve

until the next scheduled meeting.

Section 5 - Duties of Officers

The President of the Chapter shall preside at all meetings,

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Programs in the broad field of natural resource management.

(h) By such other means as may be appropriate, to unite and encourage those interested in fishes, fishing, fisheries and all other phases of fishery science and practice.

Section 2 - Membership and Dues

1. The membership of the Chapter shall be of the following classes:

(a) Active Member: Any voting member of the American Fisheries Society in good standing residing in the State of New York.

(b) Affiliate Member: Any non-member of the American Fisheries Society. Affiliate members shall be entitled to all the rights and privileges of Active members, except they cannot vote on Chapter business affairs and cannot hold office. Nominations for Affiliate membership shall be submitted to the Secretary with the endorsement of one Active member of the Chapter and shall be accepted or rejected by the membership committee.

(c) Honorary Member: Persons who, by a unanimous vote of the members of the Chapter, are recognized by reason of professional or other attainments. There shall be two classes of honorary membership: (1) Exofficio and (2) Distinguished Service. Honorary members shall be entitled to all the rights and privileges of Active Members, except that Exofficio members cannot vote on Chapter business affairs and cannot hold office.

(d) Student member: Any student member of the American Fisheries Society in good standing residing in the State of New York.

2. Dues - Annual dues for Active Student, and Associates.

1/c

1/b

1/a

PROPOSED BY-LAWS OF THE

NEW YORK CHAPTER OF THE AMERICAN FISHERIES SOCIETY

Section 1 - Name and Objectives

1. The name of this organization shall be the New York Chapter of the American Fisheries Society, hereinafter referred to as the Chapter.

2. The objectives and purposes of the Chapter shall be, particularly within the State of New York,

(a) To promote the conservation, development and wise utilization of the fisheries, both recreational and commercial.

(b) To promote and advance the development and application of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanography, and technology.

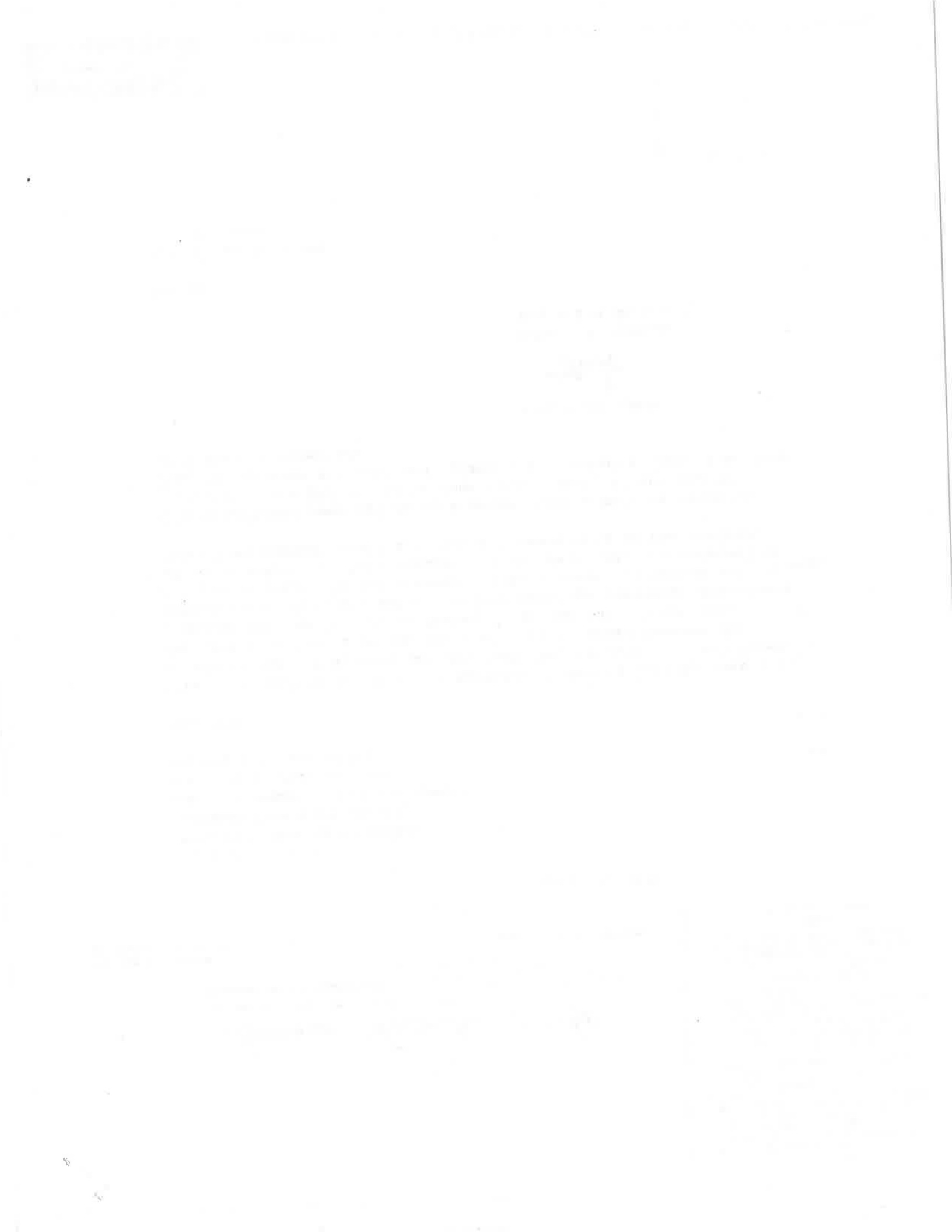
(c) To gather and disseminate technical and other information on fishes, fishing, fisheries, and all phases of fishery science and practice.

(d) To hold meetings for the presentation, exchange and discussion of information, findings and experiences on all subjects and techniques related to fishes, fishing, fisheries and all phases of fishery science and practice.

(e) To encourage the teaching of all phases of fishery science and the training of fishery workers in accredited universities and colleges.

(f) To establish and maintain highest professional standards and to recognize outstanding work and effort in the profession.

(g) To promote the understanding of the many related



APR 8 1970

cc: C. J. D. Brown
F. Grice

RFH:eg

Robert F. Hutton
Executive Secretary

RFH

Sincerely yours,

This is to inform you that the American Fisheries Society Executive Committee did not approve the New York Chapter Bylaws as submitted. The Executive Committee did not feel that it could approve the proposed section "Affiliate Member." It was pointed out that chapter, division, and parent society meetings encourage attendance and participation by non-members. But, non-members cannot vote on business affairs or hold office. It was felt that the approval of "Affiliate Member" could hurt overall membership in the Society. I have modified your Bylaws in a manner that I believe would be approved by the AFS Executive Committee. Thus, if the New York Chapter approves the modified Bylaws and re-submits them, I believe they will be accepted.

Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
New York Conservation Department
Division of Fish and Game
Albany, New York 12226

April 1, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY

ADDRESS OF THE SECRETARY
SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

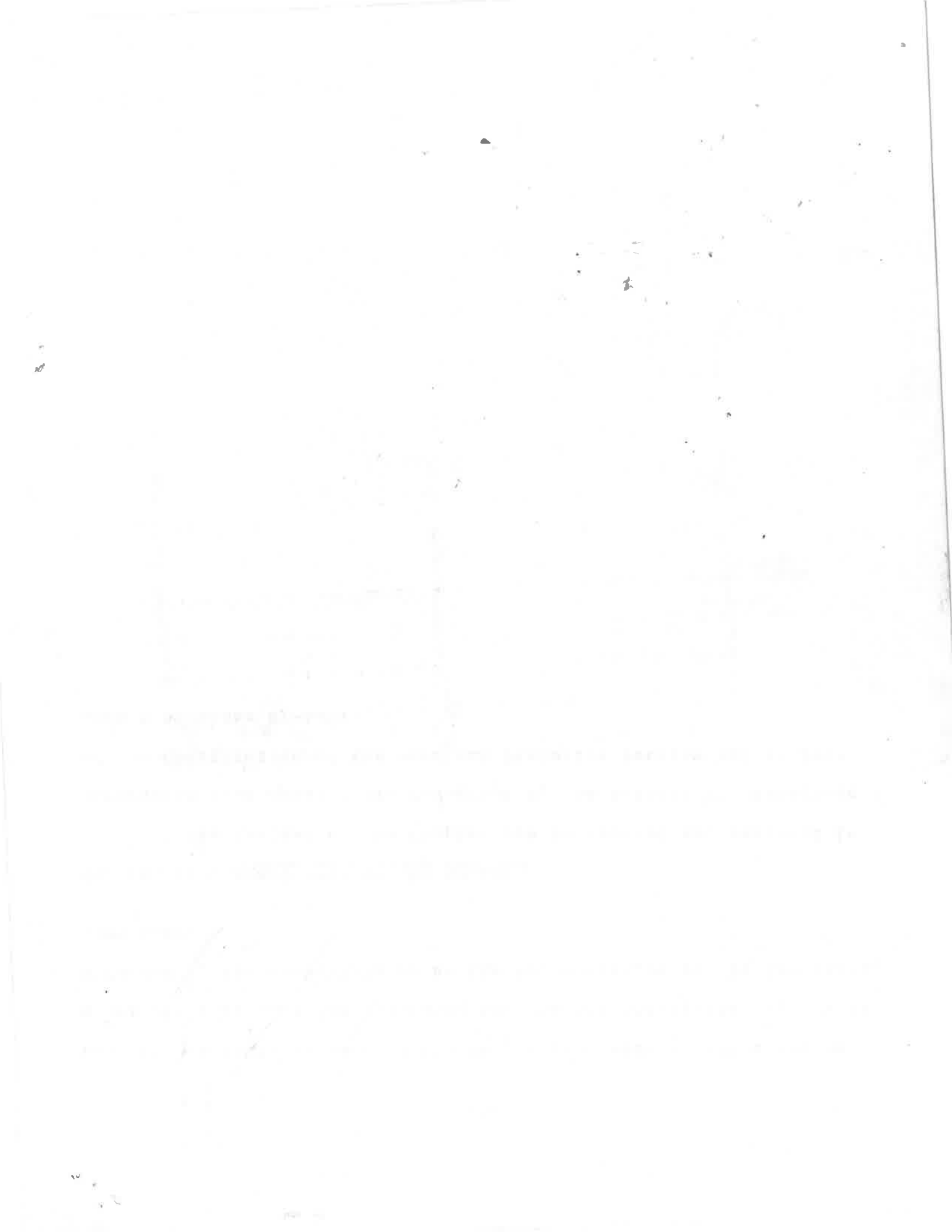
PHONE: (202) 347-9717

AMERICAN FISHERIES SOCIETY
ORGANIZED 1870 | INCORPORATED 1910



OFFICERS

- C. J. D. BROWN, President
Zoology and Entomology Department
Bozeman, Montana 59715
- ROBERT M. JENKINS, President-Elect
Natl. Research Research Prog., BS&FW
115 South East Street
Fayetteville, Arkansas 72701
- EDWIN L. COOPER, 1st Vice-President
315 Life Sciences Building
Pennsylvania State University
University Park, Pennsylvania 16802
- C. J. CAMPBELL, 2nd Vice-President
Chief, Fishery Division
State Game Commission, P.O. Box 8608
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Collections shall be made by the Secretary-Treasurer and disbursements shall be made for financing the Chapter operations, as may be directed by the membership or by the authorization of the Executive Committee.

Section 11 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3 of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

[The text on this page is extremely faint and illegible. It appears to be a multi-paragraph document, possibly a letter or a report, but the specific content cannot be discerned.]

as may be necessary for the conduct of the Chapter activities.

Standing Committees shall include: Auditing, Professional Standards, Nominating, Resolutions, Program and Membership.

The terms of office for members of the Chapter Committees shall end upon the discharge of the duties for which they were appointed, or at the next annual meeting of the Chapter, whichever comes first.

Section 8 - Election of Members

Application for all classes of American Fisheries Society memberships may be received by the Secretary-Treasurer of the Chapter and shall be forwarded to the Executive Secretary of the Society.

Section 9 - Voting and Quorum

Decisions at meetings, including election of members, shall be by a majority of those present at any meeting, except that for a motion for amendment of By-laws, a two-thirds majority shall be required; and excepted further, a unanimous vote shall be required for the election of honorary members. A voting member who is unable to be present at the annual meeting may give his proxy in writing to another member.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter voting membership.

Section 10 - Registration

The Executive Committee may assess each registrant attending annual meetings of the Chapter a registration fee necessary to cover the costs of the meeting and Chapter activities; however, all effort shall be made to have the annual membership dues cover such costs.



Section 5 and 6 of these By-Laws, may be appointed by the President
Committees and Chairmen of Committees except as listed in

Section 7 - Chapter Committees

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Committee is authorized to act for the Chapter between meetings and
President and the Chairman of the Program Committee. The Executive
President, Vice-President, Secretary-Treasurer, the immediate past
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of the Chapter, collect and be custodian of registration fees and
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event of the President's inability to act.
and Chapter. He shall assume the duties of the President in the
committee whose duty shall be to promote membership in the Society
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In the event of a cancellation of an annual meeting, the officers and the members of any committees shall continue to serve until the next scheduled meeting.

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programs in the broad field of natural resource management.

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and encourage those interested in fishes, fishing, fisheries and all

other phases of fishery science and practice.

Section 2 - Membership and Dues *Registration*

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(a) Active Member: Any voting member of the American

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on Chapter business affairs and cannot hold office. Nominations

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Fisheries Society in good standing *residing in the State of*

New York. 2. Dues - Annual dues for Active Student, and Affiliate

1/c

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PROPOSED BY-LAWS OF THE

NEW YORK CHAPTER OF THE AMERICAN FISHERIES SOCIETY

Section 1 - Name and Objectives

1. The name of this organization shall be the New York Chapter of the American Fisheries Society, hereinafter referred to as the Chapter.

2. The objectives and purposes of the Chapter shall be, particularly within the State of New York,

(a) To promote the conservation, development and wise utilization of the fisheries, both recreational and commercial.

(b) To promote and advance the development and application of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanog-

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(c) To gather and disseminate technical and other information on fishes, fishing, fisheries, and all phases of fishery science and practice.

(d) To hold meetings for the presentation, exchange and discussion of information, findings and experiences on all subjects and techniques related to fishes, fishing, fisheries and all phases of fishery science and practice.

(e) To encourage the teaching of all phases of fishery science and the training of fishery workers in accredited universities and colleges.

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MEMBER

APR 8 1970

AMERICAN FISHERIES SOCIETY

cc: C. J. D. Brown
F. Grice

RFH:eg

Robert F. Hutton
Executive Secretary

RFH

Sincerely yours,

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Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
New York Conservation Department
Division of Fish and Game
Albany, New York 12226

April 1, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY

PHONE: (202) 347-9717

SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

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NE—Dwight A. Webster, New York
S—Hudson M. Nichols, Tennessee
- Editor**
Gerald E. Gunning, Louisiana

c. The committee shall act as the elections committee by receiving and counting the ballots and installing the newly elected officers at the May business meeting.

2. Program Committee

a. The program committee shall consist of the chairman (a,3,b,3) and two (2) members appointed by the President.

b. The committee shall be responsible for the formulation and implementation of the speakers, business and social programs for the year.

3. Resolutions Committee

a. The Resolutions Committee shall consist of the chairman (a,3,d,2) and two (2) members appointed by the President.

b. The Resolutions Committee shall seek out the opinions of the Chapter's membership on matters of local, state, national and international affairs concerning the fishery resource. They shall formulate these opinions into resolutions. The presentation of these resolutions shall be at the discretion of the membership.

4. Membership Committee

a. The Membership Committee shall consist of the chairman and two members appointed by the President.

b. The Membership Committee shall be responsible for maintaining the membership of the Society and for recruiting new members to the Society.

5. Other committees shall be appointed by the President as the need arises.

Section 5 - Meetings

One (1) business meeting will be held each May. The time, place, and program of all meetings is the responsibility of the program committee.

Section 6 - Voting and Quorum

Decisions at meetings of the Chapter shall be in accordance with Article IV, Paragraph 4, of the Constitution of the American Fisheries Society.

A quorum at any meeting for the transaction of official business shall be one-third of the Chapter membership.

Section 7 - Finances

The membership shall be responsible for establishing the level of dues and special fees for operation of the Chapter.

Section 8 - Amendments of the By-Laws

The By-Laws of the Chapter may be amended and approved in accordance with Article IV, Paragraph 4, and Article VI, Paragraph 3, of the Constitution of the American Fisheries Society and by Section 9 of these By-Laws.

- a) He shall assess the membership for dues and special fees.
- b) He shall meet the financial obligations of the Chapter by direction of the executive committee.
- 4) The Secretary-Treasurer shall be chairman of the membership committee.

- 1) The Executive-Committee-Members shall be present at all executive committee meetings, and each shall share an equal vote with each the President, Vice-President, and the Secretary-Treasurer.
- 2) In the first year of the Executive-Committee-Member's term he shall be chairman of the resolutions committee.
- 3) In the second year of the Executive-Committee-Member's term he shall be chairman of the nominations and elections committee.
- 4) The Executive Committee shall be responsible for the administrative operation of the Chapter's affairs.

5. Term of Office

- 1. The President shall be elected to serve a term of one (1) year.
- 2. The Vice-President shall be elected to serve a term of one (1) year.
- 3. The Secretary-Treasurer shall be elected to serve a term of one (1) year.
- 4. The Executive-Committee-Member shall be elected to serve a term of two (2) consecutive years. Their terms shall be staggered so that in the initial elections, one member shall be elected for one (1) year and one member shall be elected for two (2) years. In all future elections only one executive committee member shall be elected. He shall be elected to serve a term of two (2) years.

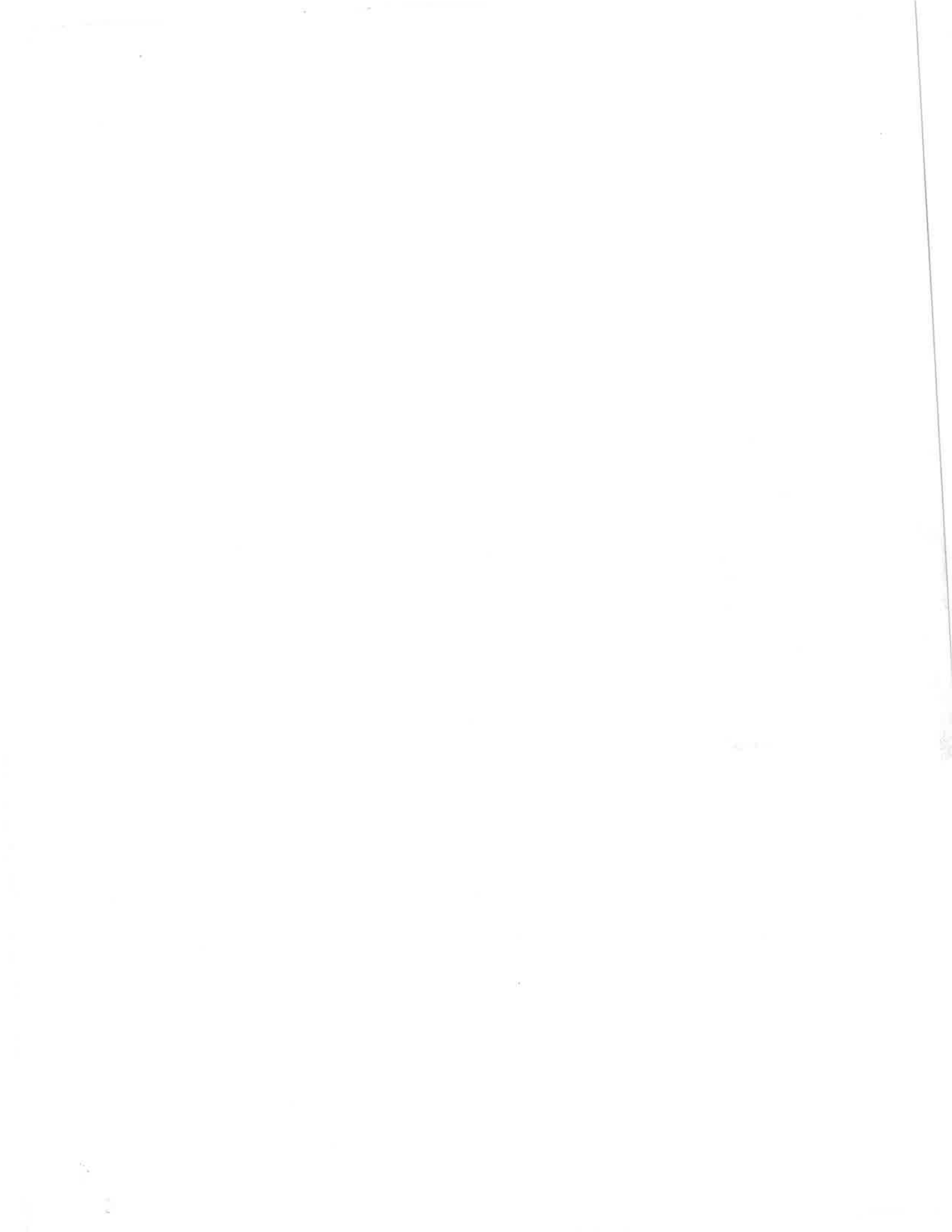
6. Election of Officers

The officers shall be elected annually by the membership by means of a mail ballot.

Section 4 - Committees

1. Nominations and Elections Committee

- 1. The Nominations and Elections Committee shall be comprised of a chairman (A, B, C, D), and two (2) members appointed by the President. One such member shall be a student member.
- 2. The committee shall present a slate of nominees to the membership by mail ballot during April of each year. The slate shall consist of at least two (2) members and provision for a write-in for each office.



Proposed By-Laws for the Central Fishermen Society
of the American Fishermen Society

Section 1 - Name and Objectives

The name of this organization shall be the Central Fishermen Society, and herein after referred to as the Chapter of the American Fishermen Society, and herein after referred to as the Chapter.

The objectives of the Chapter shall be those of the American Fishermen Society as set forth in Article 1 of the Constitution, and to encourage the exchange of information by members of the Society residing within the Chapter Territory.

Section 2 - Membership

The members of the Chapter shall be composed of those American fishermen having members in good standing residing in the Chapter Territory.

Section 3 - Officers

The officers shall include a President, Vice-President, Secretary-Treasurer and one (2) Executive Committee Members (E.C.).

The Chapter shall comprise the area (5) and executive committee.

Section 4 - Meetings

1. The President shall preside over and be responsible for the conduct of all meetings of the Chapter.

2. The President shall preside over and be responsible for the conduct of all executive committee meetings.

3. The President shall be the official voice of the Chapter.

Section 5 - Vice-President

1. The Vice-President shall assume the responsibilities of the President in the absence of the President.

2. The Vice-President shall be chairman of the program committee.

Section 6 - Secretary-Treasurer

1. The Secretary-Treasurer shall keep a record of all executive committee and General business meetings.

2. The Secretary-Treasurer shall be responsible for the collection of dues of the Chapter.

3. The Secretary-Treasurer shall be responsible for the accuracy of the Chapter.

jb
Enclosure

Arthur D. Bradford, Chief
Division of Fisheries

Best regards,

If you have any further questions, feel free to contact us at any time.
A.F.S. members to attend. They are subject to the same nominal yearly dues.
meetings are open to all fishery workers in the area including fish culturists, law enforcement officers, etc. They do not have to be apply to officers and official business only. Our seminar-type parent society. I would like to emphasize that these by-laws American Fisheries Society is probably modeled after those of the The attached copy of by-laws for our Central Penn Chapter of the

Dear Paul:

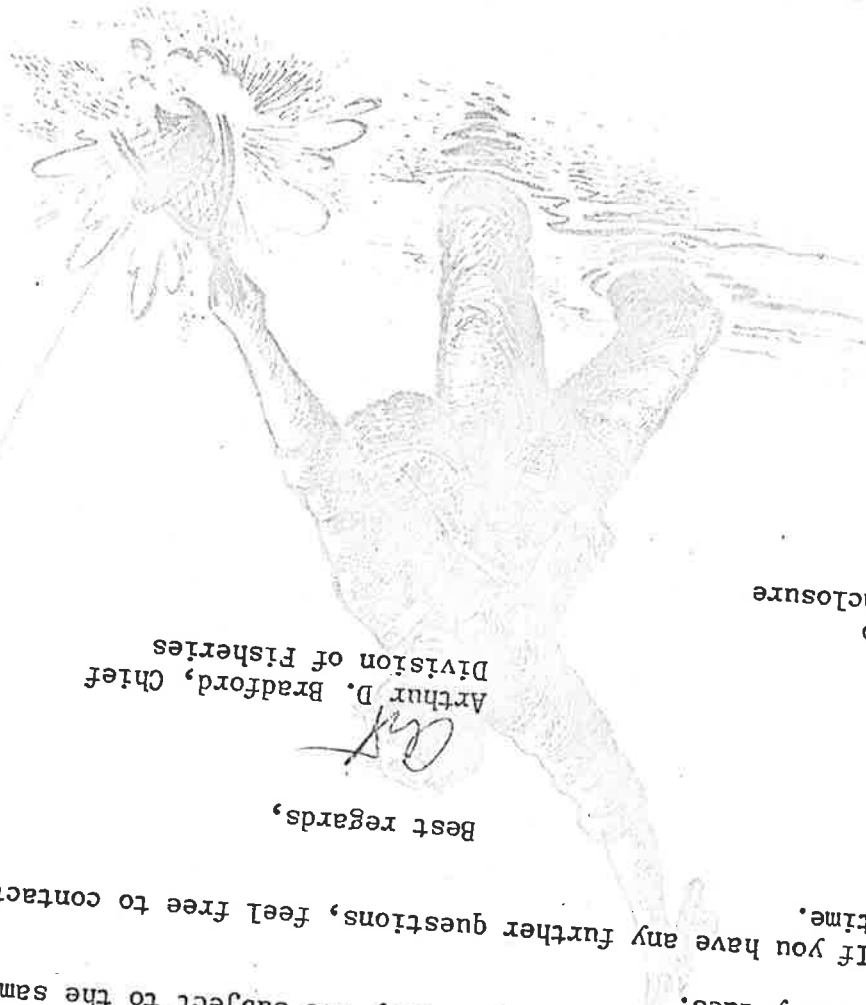
Mr. Paul Neth
50 Wolf Road
N.Y. Dept. of Environmental Conservation
Albany, New York

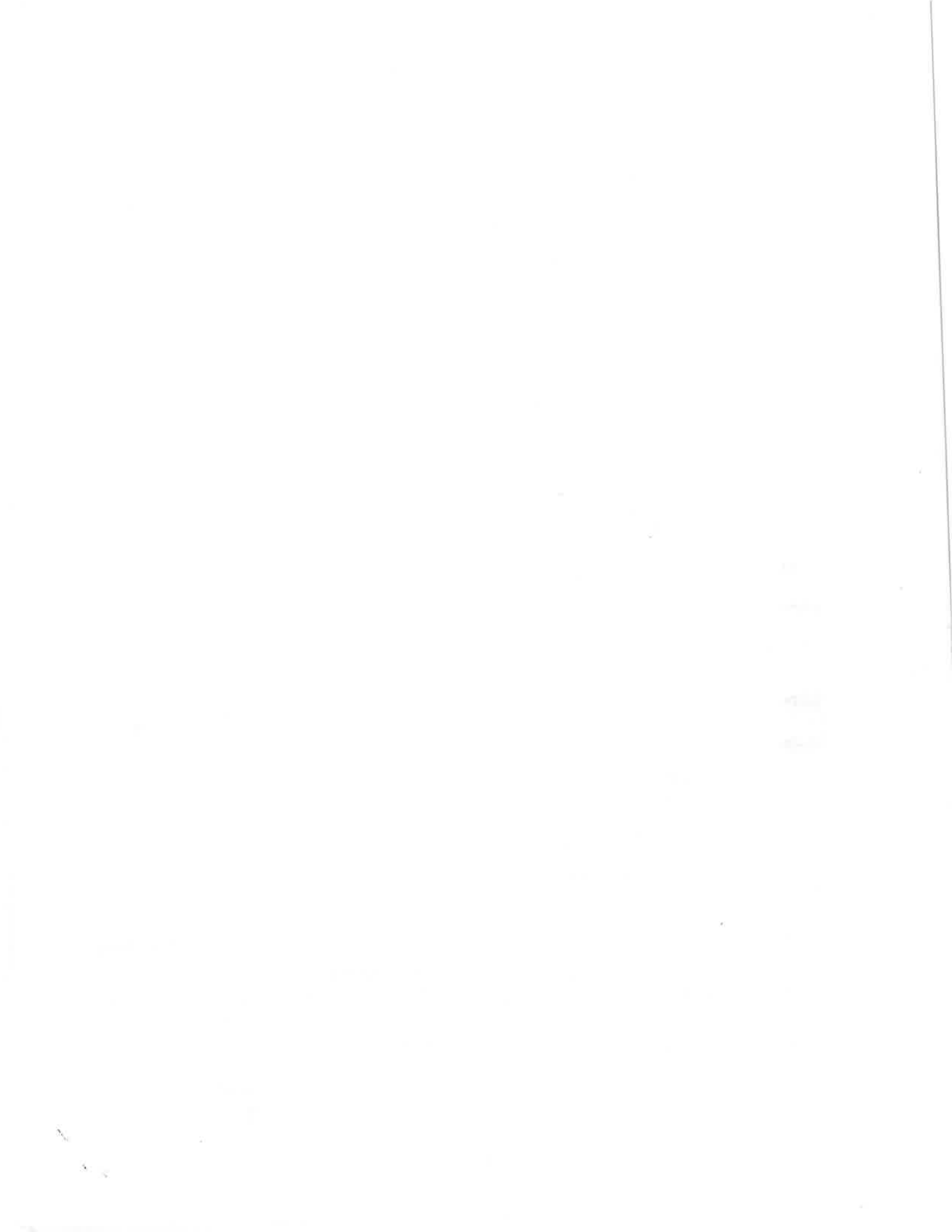
RECEIVED
BUREAU OF FISH
RESEARCH
SEP 28 1970

September 24, 1970

Division of Fisheries
Benner Spring Fish Research Station
R. D. #1, Box 200-C
Belleville Pennsylvania 16823

COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA FISH COMMISSION





Attachment

RFH:eg

Robert F. Hutton
Executive Secretary

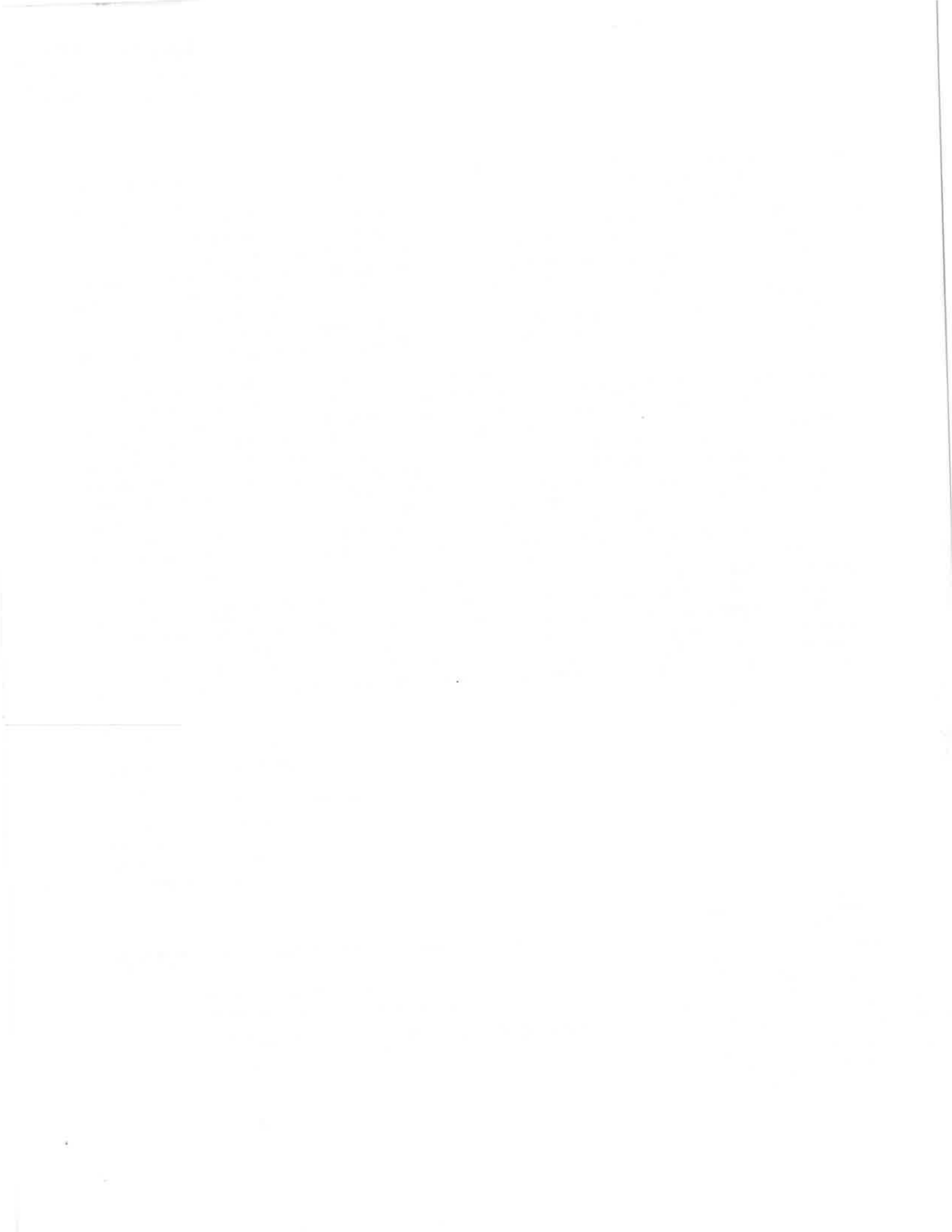


Sincerely yours,

Best regards.

It was nice to see you at the recent centennial meeting. The New York people, including yourself, did an outstanding job in hosting the meeting. Dave Wallace, in particular, did a tremendous job.

This matter in detail with you and your executive committee prior to the business session of the New York Chapter at its next annual meeting. I do plan to attend, and I will come a day early, if necessary, so that we can get together and try to work out a solution to this problem.



Regarding Section 2 of the proposed New York Chapter Bylaws, I have modified it so that the parent society executive committee should not have any objections (see attachment). Please note that a provision for "affiliate member" is not included. The parent society executive committee does encourage participation by non-members at chapter, regional and national meetings. Furthermore, the executive committee feels that we should make membership in the Society as attractive as possible to all those interested in the field of fisheries. But it also feels that a non-paying "affiliate membership" category would weaken the Society, not strengthen it. Perhaps what we need to do is to provide additional benefits and services to those interested individuals not now members. I would welcome an opportunity to discuss

After returning from our centennial meeting last week, I have reviewed the Bylaws of the New York Chapter of the American Fisheries Society, adopted by your members on December 4, 1969, at your annual meeting in Syracuse, New York. The only part of the New York Chapter Bylaws not approved by the AFS Executive Committee was Section 2 - Membership and Dues. Article VI of the parent society constitution states in part that "... each such regional division (or chapter) may adopt and amend from time to time its own Bylaws, which shall conform to the provisions of this Constitution and Bylaws of the Society adopted pursuant to Article V." As you know, the parent society constitution and bylaws does not provide for the modified its purposes as shown in your bylaws. Also, the parent society income tax as an organization described in section 501(c)(3) of the Internal Revenue Code. While the New York Chapter is in the process of having its bylaws adopted, I recommend that part 2 of Section 1 of its proposed bylaws be modified to conform to the parent society purposes (see page 448, Vol. 99, No. 2, TAFS). This, in my opinion, will help eliminate confusion and difficulty if the chapter should decide to apply for tax-exempt status.

Dear Paul:

Dr. Paul C. Neth
President, New York Chapter
American Fisheries Society
c/o New York State Department of
Environmental Conservation
50 Wolf Road, Coltonie
Albany, New York 12201

ROBERT F. HUTTON
EXECUTIVE SECRETARY

ADDRESS OF THE SECRETARY
SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D.C. 20005
September 25, 1970
PHONE: (202) 347-9717

ORGANIZED 1870 | INCORPORATED 1910
American Fisheries Society

SEP 23 1970

OFFICERS:

ROBERT M. JENKINS, President
113 South East Street
Nett Reservoir Research Prog., BSFAW
Raytown, Arkansas 72701
EDWIN I. COOPER, President-Elect
315 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802
C. J. CARPENT, 1st Vice-President
Chief, Fishery Division
State Game Commission, P.O. Box 5503
Portland, Oregon 97208
RAYMOND E. JOHNSON, 2nd Vice-President
Assistant Director-Research
Bureau of Sport Fisheries and Wildlife
Washington, D.C. 20240
Division Presidents
NG—C. W. Threinen, Wisconsin
NB—Frank Grice, Massachusetts
W—Paul Coplin, Idaho
Editor
Gerald E. Gunning, Louisiana



PCN/1a
Enc.

Paul C. Meth
President, New York Chapter
American Fisheries Society

Sincerely yours,

We appreciate your kind words relative to the Gen-
tamiel but don't underestimate the major role that you
played in its success. I hope you took at least a brief
vacation after it was over.

I am enclosing a program prospectus. As soon as a
formal program is printed we'll send you a copy.

If you let me know what your schedule will be, we
will make reservations for you at the Gotham Inn.

Our meeting this year is going to be held at the
Gotham Motor Inn, Syracuse, New York from 10 A.M., Friday,
December 4 to 1 P.M., Saturday, December 5. If it is con-
venient for you, we could plan to arrive late in the after-
noon of December 3, have dinner together and discuss the
bylaws later in the evening.

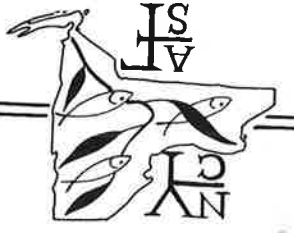
I want to thank you for your informative letter of
September 25 relating to our membership problem. While
our Executive and Bylaws Committee members have been
given copies for their review, we would like to take
advantage of your offer to meet with us prior to our
annual meeting to discuss the subject further in the hope
of working out a solution to the problem.

Dear Bob:

Dr. Robert F. Hutton
Executive Secretary
American Fisheries Society
Suite 1040, Washington Building
15th and New York Avenue, N.W.
Washington, D. C. 20005

October 30, 1970

NEW YORK CHAPTER — AMERICAN FISHERIES SOCIETY



Cl. Diefsch 113



or assessments for a period of at least one year as are enumerated in the Bylaws adopted pursuant to Article V.

5. As used in this Constitution, and in the Bylaws adopted pursuant to Article V, the term member "in good standing" means any active member, sustaining member, library member, or official member, whose dues are currently paid and any life member, honorary member, or patron: provided that only active, foreign and student members in good standing, and life members, and distinguished service and honorary members shall be entitled to vote.

ARTICLE III

OFFICERS AND EXECUTIVE COMMITTEE (BOARD OF DIRECTORS)

1. The officers of the Society will be President, Vice-President, and Executive Secretary. However, the Executive Committee shall be authorized to employ an Executive Secretary who shall continue in office at the pleasure of the Executive Committee. Said Executive Secretary shall be a person having executive ability and experience and such other qualifications as designated by the Executive Committee. He shall conduct the duties as stated in Section 3 of the Bylaws and shall be responsible to the Executive Committee for the execution of the policies of the society. He shall provide a monthly report to the members of the Executive Committee covering his activities and including a financial statement.

2. Only active members in good standing, life members, and distinguished service honorary members who have been in attendance at one of the 3 regular meetings preceding their nomination or election shall be eligible for such nomination or election to one of the offices named in Paragraph 1. Members who accept nomination and are elected to hold one of the offices of the Society are bound to perform their duties to the best of their ability and to advance the purposes and objectives of the Society.

3. (a) Officers shall be elected and serve for a period of one year, or until the next meeting.

3. Nominations for honorary membership shall be submitted with the endorsement of at least 10 active members of the Society in good standing, and the unanimous vote of all members present at any regular or special meeting shall be required for election.

4. The names of elected members shall not be added to the membership rolls of the Society until they have paid such dues, fees, and to advance the purposes and objectives of the Society.

United States of America, the Lieutenant-Governors of the Provinces of Canada, the Secretary of the Interior of the United States of America, the Minister of Fisheries of Canada, and the Secretary of the Navy of Mexico shall be Honorary Members ex officio. Any other person of note, by reason of his professional or other attainments, outstanding service to the Society, or his official position, shall be eligible for election as a distinguished service honorary member.

(h) Foreign Member: Any duly elected member, who is not a resident of the United States or Canada, who is desirous of membership in the Society at a reduced rate. A foreign member shall have all rights and privileges of an active member except to hold an elective office. A foreign member may hold an active membership upon payment of the active membership fee.

(i) Student Member: Any duly elected member who is a bona fide academic student of fisheries subjects, and who desires membership in the Society at a reduced rate. To qualify, a student member must be endorsed originally and annually by an active member in good standing. A student member shall have all the rights and privileges of an active member except to hold an elective office. A student member may hold an active membership upon payment of the active membership fee.

2. Membership Authorization: The Executive Committee, established pursuant to Article III, is authorized to consider and vote upon nominations for all classes of membership, except nominations for honorary membership. When so authorized by the Executive Committee, the President and the Executive Secretary, acting jointly, may pass upon such nominations during the intervals between meetings.

3. Nominations for honorary membership shall be submitted with the endorsement of at least 10 active members of the Society in good standing, and the unanimous vote of all members present at any regular or special meeting shall be required for election.

4. The names of elected members shall not be added to the membership rolls of the Society until they have paid such dues, fees, and to advance the purposes and objectives of the Society.



Constitution of the American Fisheries Society

NOTE: Bold face type in the text indicates major changes made at the 99th Annual Meeting and has no other significance.—Editor.

ARTICLE I

NAMES, OBJECTIVES AND PURPOSES

1. The name of the organization shall be the **AMERICAN FISHERIES SOCIETY**, hereinafter referred to as the **Society**.
2. The purpose or purposes for which it will hereinafter pursue are:

(a) To promote and evaluate the educational, scientific, and technological development and advancement of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanography, and technology.

(b) To gather and disseminate technical and other information on fishes, fishing, fisheries, and all phases of fishery science and practice.

(c) To hold meetings for the presentation, exchange, and discussion of information, findings, and experiences on all subjects and techniques related to fishes, fishing, fisheries, and all phases of fishery science and practice.

(d) To encourage the teaching of all phases of fishery science and the training of fishery workers in accredited colleges and universities.

(e) To promote the conservation, development, and wise utilization of the fisheries.

(f) For the administration of the affairs and the attainment of the purposes of the corporation, as set forth in Paragraph TWO (a) through (e) above, the corporation shall have the power, either directly or indirectly, with others, to do any and all lawful acts and things, and to engage in any and all lawful activities which may be necessary, useful, suitable, desirable, or proper for the furtherance, accomplishment, fostering, or attainment of any or all of the purposes for which the corporation is organized, and to aid and assist other organizations whose activities are such as to further accomplish, foster, or attain any of such purposes.

(g) Notwithstanding anything herein to the contrary, the corporation shall neither have nor exercise any power, nor shall it directly or indirectly engage in any activity that would prevent it from obtaining exemption from Federal income taxation as a corporation described in Section 501 (c) (3) of the Internal Revenue Code of 1954 and its regulations as the same now exist or as they may hereafter be amended from time to time, or (2) cause it to lose such exempt status.

For exempt status

MEMBERSHIP AND ELECTION OF MEMBERS

ARTICLE II

1. The membership of the Society shall be of the following classes:

(a) **Active Member:** Any person interested in the Society and in the furtherance of its purposes and objectives is eligible for election as an **Active Member**.

(b) **Life Member:** Any duly elected active member, upon payment of the fee for life membership as specified in the Bylaws, may retain his status as an active member throughout the remainder of his life and shall be exempt from any further payment of dues.

(c) **Sustaining Member:** Individuals, any sporting or fishing club, any society, corporation, or other organization is eligible for election as a sustaining member.

(d) **Library Member:** Any technical, public, private, or other library may become a library member.

(e) **Official Member:** Any Federal, State, Provincial, or Territorial department or agency of the United States of America, Government of Canada, United Mexican States, or any other American Republic is eligible for election as an official member.

(f) **Patron:** Any person, society, club, firm, corporation, or other organization is eligible to become a patron.

(g) **Honorary Member:** Honorary members shall be of two classes, ex officio and distinguished service. The President of the United States of America, the Governor-General of the Government of Canada, the President of the United Mexican States, the Governors of the States and Territories of the

United States of America, the Secretary of the Interior of the United States of America, the Minister of Fisheries and the Secretary of the National Conservation Service shall be Honorary Members ex officio or other person of note, by reason of professional or other attainments, shall be eligible for election as a service honorary member.

(h) **Foreign Member:** Any member who is not a resident member in the Society at a reduced rate shall have all rights and privileges of a full member except to hold an office. A foreign member may be elected upon payment of the initiation fee.

2. Membership Authorized Committee, established pursuant to Article III, is authorized to consider nominations for all classes (except nominations for honorary members) acting jointly, may prepare, acting jointly, may prepare nominations during the meetings.

3. Nominations for honorary members shall be submitted with the enrollment of active members of the Society present at any regular or special meeting, and the unanimous consent of the members of the Society shall be required for election.

4. The names of elected members shall be added to the membership list until they have paid the initiation fee.

changes to Chapter as well

which shall conform to the provisions of this Constitution and Bylaws of the Society adopted pursuant to Article V. The Bylaws of regional divisions, after adoption and each amendment, shall be reviewed by the Executive Committee of the Society to insure conformance with the Constitution and Bylaws of the Society. No Bylaws of regional divisions or amendments thereof shall be considered effective until such review by the Executive Committee of the Society has been completed and the President of the regional division has been notified in writing by the Executive Secretary of the Society that such Bylaws or amendments thereof are in conformity with the Constitution and Bylaws of the Society.

4. (a) Each regional division shall elect its officers, which shall consist of a President, President-Elect, and Secretary-Treasurer. The President of any regional division shall be a member of the Executive Committee of the Society, and in his absence or inability to attend meetings of the Executive Committee the President-Elect of that regional division may act in his stead. The Secretary-Treasurer of any regional division of the Society shall serve as an assistant to the Executive Secretary of the Society and shall carry out his duties in accordance with such procedures as may be determined from time to time by the Executive Secretary of the Society.

(b) The Secretary of each regional division shall submit complete minutes of the annual division meetings to the Executive Secretary of the Society within 30 days after the annual divisional meeting is held.

5. All members of the Society who reside within a designated region in which a regional division of the Society may be established shall, upon election to membership and payment of dues prescribed in the Bylaws, be considered a member both of such regional division and of the Society as a whole.

6. The regional divisions may, with the approval of the Executive Committee of the Society, levy such special fees, in addition to the dues of regular members of the Society, as may be necessary to meet any expenses of the regional divisions which are not properly chargeable to the regular funds of the Society. All regular Society dues shall be paid only to

pointment or by election) of such standing committees, other than the Executive Committee, established in accordance with Paragraph 4 of Article III, and such sessional committees as may be necessary for the conduct of the business of the Society and the furtherance of its purposes and objectives. For the purposes of this subparagraph, (1) a standing committee is defined as one which is established permanently in the Bylaws as a part of the basic organization of the Society; and (2) a sessional committee is defined as one constituted for the purpose of undertaking specific tasks at or in preparation for a regular or special meeting of the Society and is discharged upon submission of its report or completion of its business.

(d) Notwithstanding the provisions of subparagraph (c) of this paragraph, the President may appoint special committees to undertake special assignments; and such authorization or appointments shall not require amendment of the Bylaws, and such committees shall automatically be abolished on completion of their assignments or on the date of the next regular meeting, whichever occurs first.

(e) Provide authorization for such official publications of the Society as may be necessary in the furtherance of its purposes and objectives.

(f) Provide for the establishment and maintenance of any regional divisions of the Society established pursuant to the provisions of Article VI.

1. A regional division of the Society may be established by the favorable action of the Society, pursuant to Paragraph 4 of Article IV, upon a petition presented to it at any regular meeting by not less than twenty-five members of the Society in good standing resident in a particular geographic region.

2. Such regional division or divisions shall be organized in accordance with pertinent provisions of the Bylaws adopted pursuant to Article V.

3. Each such regional division may adopt and amend from time to time its own Bylaws,

REGIONAL DIVISIONS
ARTICLE VI



Enclosed is the Prospectus for the above meeting.
Please note that you are scheduled for Closing Remarks
(5 minutes or so) at 12:55 PM, Saturday, December 5th.
It has also been suggested that you and Bruce Wilkins
write a letter of welcome to the Commissioner.

RE: DECEMBER MEETING OF THE NYS CHAPTERS OF THE AMERICAN
FISHERIES SOCIETY AND THE WILDLIFE SOCIETY

FROM HOWARD A. LOBB

MEMO TO PAUL NETH

13 October 1970

The Society of American Foresters

New York Section

Harvard Black Rock Forest
Cornwall, New York 12518

November 24, 1970

Dr. Paul C. Neth, President
NY Chapter, American Fisheries Soc.
N.Y.S. Dept. of Environmental Conservation
50 Wolf Road
Albany, New York 12201

Dear Paul:

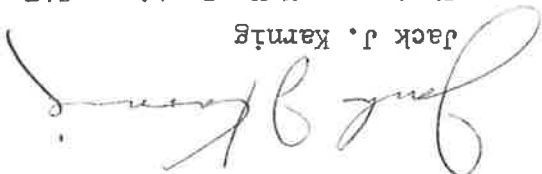
Thank you for your gracious invitation to attend the upcoming conference on computers to be held at Syracuse. A quick review of the program shows me that you have a very interesting slate of speakers with topics to match.

Unfortunately, while this particular conference is in progress, I must be busy at work at my job as manager of the Harvard Forest in Petersham, Massachusetts. This conflict, I'm afraid, can not be resolved and I must toll for Harvard or give up the luxury of eating.

Although I must miss this particular conference, I do look forward to our joint Natural Resources conference in February. Nothing could keep me away from attending that one. I hope you feel the same about our Crossingers meeting.

cc. W. Clingan

Sincerely yours,



Jack J. Karnig

Chairman, N.Y. Section, SAF

DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
RECEIVED
NOV 24 1970

RESEARCH

How much have you seen in the field or in firms of banking proposal to separate mgt - prop. from the traditional staff program or Charhanga lake meeting program

Meeting

If my info is correct, Shop has been changed with JB to write proposal, design ?? a project toward this end.

Summed up the Research? I don't know in

fact I think this was yet undetermined I know Paul does not like the notion

of not working with? other than the acct. Director

Have there interests -



HENRY L. DIAMOND
COMMISSIONER

STATE OF NEW YORK
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

ALBANY

November 30, 1970

Dear Mr. Neth:

Thank you for your invitation to attend the computer conference at Syracuse on December 4-5, 1970. A review of the program indicates that your chapters have selected a fine slate of speakers and topics to match.

Unfortunately prior demands on my time make it impossible for me to attend the meeting. However, I expect attendance by several representatives of my staff.

Your invitation is warmly appreciated and I wish you success with your conference.

Sincerely,

Commissioner

Mr. Paul C. Neth, President
New York Chapter, American
Fishes Society
New York Department of Environmental
Conservation
Albany, New York 12201

DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
R.E. CLINE D.
DEC 21 1970
FISH - RESEARCH



FISH - RESEARCH
RECEIVED
NOV 23 1970
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

RFH:eg

Robert F. Hutton
Executive Secretary

RFH
Sincerely yours,

Reservations made for

Best personal regards.

Thank you for your letter of October 30, 1970. I am planning to arrive in Syracuse at 3:08 p.m. on December 3 via Allegheny Airlines. Please make a single room reservation for me for the nights of December 3 and 4. I will plan to have dinner with you during the evening of the 3rd. I may have to leave about the middle of the morning on Saturday as I must be in Winthrop on Sunday.

Dear Paul:

Dr. Paul C. Neth
President
New York Chapter
American Fisheries Society
New York State Department of
Environmental Conservation
50 Wolf Road, Coltonie
Albany, New York 12201

November 18, 1970

ROBERT F. HUTTON
EXECUTIVE SECRETARY
PHONE: (202) 347-9717

ADDRESS OF THE SECRETARY
SUITE 1040, WASHINGTON BUILDING
15TH & NEW YORK AVENUE, N.W.
WASHINGTON, D. C. 20005

ORGANIZED 1870 | INCORPORATED 1910

American Fisheries Society



- OFFICERS**
- ROBERT M. JENKINS, President, BSR&W
Natl Research Program, 115 South East Street
Fayetteville, Arkansas 72701
 - EDWIN L. COOPER, President-Elect
815 Life Science Building
Pennsylvania State University
University Park, Pennsylvania 16802
 - C. J. CAMPBELL, 1st Vice-President
University Park, Pennsylvania 16802
 - Chief, Fishery Division
State Game Commission, P.O. Box 3508
Portland, Oregon 97208
 - RAYMOND E. JOHNSON, 2nd Vice-President
Bureau of Sport Fisheries and Wildlife
Washington, D. C. 20240
 - Division Presidents
 - NG-C. W. Threlten, Wisconsin
NE-Frank Grice, Massachusetts
S-J. Harry Barkley, Mississippi
W-Paul Cuplin, Idaho
 - Editor
Gerald E. Gunning, Louisiana

PCN/ja
Enc.

Paul C. Neth, President
NY Chapter, American Fisheries
Society

Sincerely yours,

We feel that the program will be both interesting and
informative and would be delighted if you were able to join
us and participate in the conference.

Reservations should be made directly with the Gotham
Motor Inn in Syracuse (telephone: 315-463-6601). Room rates
are \$14.00 daily for a twin-bedded, double room and \$9.00
daily for a single room.

The program will consist of a panel discussion by a group
of specialists who are conversant with techniques and actual
and potential applications of computers, followed by a de-
monstration of the practical uses of computers in our field.
Details are given in the attached brochure.

The New York Chapters of the American Fisheries Society
and the Wildlife Society are sponsoring a conference on
computer applications in fish and wildlife resource manage-
ment. The conference is to be held on December 4-5, 1970,
at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New
York. The theme of the program is entitled "The Use of
Computers in Fisheries and Wildlife Management, Research
and Husbandry".

Dear Mr. Walker:

Mr. Robert H. Walker
President, New York Section
Soil Conservation Society of America
158 Main Street
Mount Morris, New York 14510

November 23, 1970

November 23, 1970

Mr. Frederick Howell
Director, Central Program
Planning
New York Department of En-
vironmental Conservation
50 Wolf Road
Albany, New York 12201

Dear Fred:

The New York Chapters of the American Fisheries Society and the Wildlife Society are sponsoring a conference on computer applications in fish and wildlife resource manage-
ment. The conference is to be held on December 4-5, 1970, at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New York. The theme of the program is entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry".

The program will consist of a panel discussion by a group of specialists who are conversant with techniques and actual and potential applications of computers, followed by a demonstration of the practical uses of computers in our field. Details are given in the attached brochure.

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We feel that the program will be both interesting and informative and would be delighted if you were able to join us and participate in the conference.

Sincerely yours,

Paul C. Neth, President
NY Chapter, American Fisheries
Society

PCN/Ja
Enc.

November 23, 1970

Mr. Theodore Zuk
Supervisor of Administrative and
Computer Planning
New York Department of Environ-
mental Conservation
50 Wolf Road
Albany, New York 12201

Dear Ted:

The New York Chapters of the American Fisheries Society
and the Wildlife Society are sponsoring a conference on
computer applications in fish and wildlife resource manage-
ment. The conference is to be held on December 4-5, 1970,
at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New
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daily for a single room.

We feel that the program will be both interesting and
informative and would be delighted if you were able to join
us and participate in the conference.

Sincerely yours,

Paul C. Neth, President
NY Chapter, American Fisheries
Society

PCN/Je
Enc.

November 23, 1970

Mr. Allen Peterson
President, New England Chapter
American Fisheries Society
Massachusetts Department of Natural
Resources
Division of Marine Fisheries
Sandwich, Massachusetts 02563

Dear Allen:

The New York Chapters of the American Fisheries Society
and the Wildlife Society are sponsoring a conference on
computer applications in fish and wildlife resource manage-
ment. The conference is to be held on December 4-5, 1970,
at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New
York. The theme of the program is entitled "The Use of
Computers in Fisheries and Wildlife Management, Research
and Husbandry".

The program will consist of a panel discussion by a
group of specialists who are conversant with techniques and
a demonstration of the practical uses of computers in our
field. Details are given in the attached brochure.

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Motor Inn in Syracuse (telephone: 315-463-6601). Room rates
are \$14.00 daily for a twin-bedded, double room and \$9.00
daily for a single room.

We feel that the program will be both interesting and
informative and would be delighted if you were able to join
us and participate in the conference.

Sincerely yours,

Paul C. Neth, President
NY Chapter, American Fisheries
Society

PCN/ja
Enc.

November 23, 1970

Mr. Jack J. Karnig
President New York Section
Society of American Foresters
Harvard Black Rock Forest
Cornwall, New York 12518

Dear Jack:

The New York Chapters of the American Fisheries Society and the Wildlife Society are sponsoring a conference on computer applications in fish and wildlife resource management. The conference is to be held on December 4-5, 1970, at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New York. The theme of the program is entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry".

The program will consist of a panel discussion by a group of specialists who are conversant with techniques and actual and potential applications of computers, followed by a demonstration of the practical uses of computers in our field. Details are given in the attached brochure.

Reservations should be made directly with the Gotham Motor Inn in Syracuse (telephone: 315-463-6601). Room rates are \$14.00 daily for a twin-bedded, double room and \$9.00 daily for a single room.

We feel that the program will be both interesting and informative and would be delighted if you were able to join us and participate in the conference.

Sincerely yours,

Paul C. Neth, President
NY Chapter, American Fisheries
Society

PCN/ja
Enc.

November 23, 1970

Mr. Arthur D. Bradford
Chief, Division of Fisheries
Pennsylvania Fish Commission
Benner Spring Fish Research Station
R.D. #1, Box 200-C
Belleville, Pennsylvania 16823

Dear Art:

The New York Chapters of the American Fisheries Society and the Wildlife Society are sponsoring a conference on computer applications in fish and wildlife resource management. The conference is to be held on December 4-5, 1970, at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New York. The theme of the program is entitled "The Use of Computers in Fisheries and Wildlife Management, Research and Husbandry".

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We feel that the program will be both interesting and informative and would be delighted if you were able to join us and participate in the conference.

Sincerely yours,

Paul C. Neth, President
NY Chapter, American Fisheries
Society

PCN/ja
Enc.

Bruce T. Wilkins, President
N.Y. Chapter, The Wildlife
Society

Paul C. Neth, President
N.Y. Chapter, American
Fisheries Society

Sincerely yours,

We feel that the program will be both interesting and
informative and would be delighted if you or members of
your state or Program Associates were able to join us and
participate in the conference.

The program will consist of a panel discussion by a
group of specialists conversant with techniques and actual
and potential applications of computers, followed by a
demonstration of the practical uses of computers in our
field. Details are given in the attached brochure.

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and the Wildlife Society are sponsoring a conference on
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ment. The conference is to be held on December 4-5, 1970,
at the Gotham Motor Inn, Thruway Exit 35, Syracuse, New
York. The theme of the program is entitled "The Use of
Computers in Fisheries and Wildlife Management, Research
and Husbandry."

Dear Commissioner Diamond:

Mr. Henry L. Diamond
Commissioner
New York Department of
Environmental Conservation
Albany, New York 12201

July 23, 1970

McH5 File

PCN/Jo
Enc.
cc: Ken Wick
Bill Pick
Robert Griffiths
Eli Blotach
Robert Brower

Paul C. Hoch, President
NY Chapter, American Fisheries
Society

Sincerely yours,

I am pleased that you will be able to attend our up-
coming computer conference and the Chapter business meet-
ing. A copy of the formal program is enclosed.
Most of the members of the Executive and Nylons
Committee of the Chapter will be attending a Division
staff meeting at the Gotham Inn on December 3. I will
invite them to dine with us following the staff meeting
which is scheduled to end at 5 P.M.
Reservations for a single room at the Gotham Inn,
the nights of December 3 and 4, have been made in your
name.

Dear Bob:

Dr. Robert F. Burtan
Executive Secretary
American Fisheries Society
Suite 1040, Washington Building
15th and New York Avenue, N.W.
Washington, D. C. 20005

November 23, 1970

Neil's File

MINUTES OF MEETING BETWEEN JIM FORBES AND HOWARD LOEB
ATMAN

3-4-70

The following points were discussed:

1. Time and Place: The meeting will be held on Thursday-Friday, December 5 & 6, 1970 in Syracuse at the Gotham Inn or Randolph House.
Registration: It will include costs for luncheon (\$4.00), coffee (\$.50), microphones (\$8.00), and speakers (\$3.00) for a total of \$8.00.

Registration will take place in a single room and will be recorded by each Secretary-Treasurer on forms prepared by Cliff Grech. Any money left over will be given back to each organization in proportion to attendance at each meeting.

Registration will take place between 5 and 8 on Thursday and 7:45 - 8:45 on Friday.

3. Business meetings: Meetings will be held in separate rooms capable of holding 120 people each, from 8 - 10 PM. Microphones, rostrum and front table will be provided.

Costs: Price of main and business meeting rooms, coffee, luncheon, microphones, expenses for speakers and mailing will be determined to make up registration fee. Bills will be paid by the Fishery Chapter Secretary-Treasurer.

5. Luncheon: Available to ticket holders only, between 12 and 1.

6. Program printing: Clayton Hardy will be asked to do the preliminary program mimeograph from information given by the program chairman. He will give 150 to each Secretary for distribution to members, universities, speakers, panel chairmen, news media, sportsmen groups, legislators, and other interested people. Program mimeo programs will be sent out in early October.

Jim - For your info
Dave

12. Forbes will arrange with Herb Dole on design and printing of final program. The services of Earl Westervelt and Bonnie Jackson will be requested. An outside printing establishment will be contacted if needed, and the cost will have to be figured.

Activity	Time	Cost
3 papers	9-10 AM (17 min ea)	1.0 hours
Coffee	10-10:30 AM	0.5
3 papers	10:30-11:30 AM (17 min ea)	1.0
Discussion	11:30-12 Noon	0.5
Total		
3.0		
Lunch		
	12:00-1:00 PM	1.0
Free time	1:00-1:30 PM	0.5
4 papers	1:30-3:00 PM (20 minutes) each	1.5
Coffee	3-3:30 PM	0.5
3 papers	3:30-4:30 PM (17 min ea)	1.0
Discussion	4:30-5:00 PM	0.5
Total		
3.5		

11. Tentative program plan:
1. Panel Chairman: Each program chairman will introduce a panel of speakers, at the morning or afternoon. Each will find a moderator for the panel discussion at the end of each session.
 2. Interactions: The program will be introduced by one of the Society presidents, and adjourned by the other.
 3. Discussion: A half-hour question and answer period will be held at the end of each session.
 4. Program: There will be a total of 13 papers, 6 during the morning general session and 7 during the afternoon technical session. Papers will be approximately 20 minutes long.
 5. The conference theme will tentatively be "Computers in the Fishery and Wildlife Management Professions."

CC: Jim Forbes
Paul North
Bruce Wilkins

HOWARD A. LOEB
Program Chairman
NY State Chapter
American Fisheries Society

14. Each program chairman will complete the above tasks, make up a tentative list of papers and call the other. The next meeting will be between the program chairman as before, where the program itself will be the agenda.
15. Loeb will call back James on setting up physical arrangements, Ellet Czech on printing of registration forms, and Clay Hardy on printing of preliminary program.
16. The program should be ready by mid-October and sent out in early November. The final draft to the same people. The fishery secretary will send it to all non-members. The final draft will be sent out by the respective secretaries in the registration fee. The final program

NEW YORK STATE CHAPTER
OF THE
FISHERIES AND WILDLIFE SOCIETIES
ITHACA - FERNOW HALL - 2/26/70

Attending:

Bruce Wilkins
Rich Noble
Al Ripper
Clayt Hardy
Howard Loeb
Bob Griffiths

General Discussion:

Need for an appointed "Conference Treasurer". Conference fees to be pooled and all expenses shared.

Responsibilities for arrangements to be assigned to one individual rather than equally shared between the Chapters.

1970 Meeting Time and Place -

General agreement on Syracuse, Dec. 3 - 4 (Thursday - Friday) with business meeting scheduled for Thursday evening.

Rich Nobel suggested Randolph House. Bruce Wilkins would like to consider other cities, if not this year some other time.

Short discussion and general disagreement on pre-registration for discount price suggestion made by Bruce.

Bruce also feels there is a strong objection among Wildlife to holding banquet by charging fee as part of registration fee. Some feel they would rather pay meeting room fees than schedule a banquet.

A. Ripper:

Problem associated with Program Committee functions
1. Meet early - started in 1969 on 7/1, 2 months too late.

2. Make physical arrangements far in advance.

3. Meeting (program) attendance poor and unannounced.

4. Need for Conference Chairman with total authority.

5. Program Chairman should come from geographic area of Society Presidents and perhaps some.

February 26, 1970

Bob Griffiths (Vice-President, Fishery Chapter); Howard Loble ('70 Program

Chairman, Fishery Society); Alfred Ripper (1969 Fishery Program Chairman);

Richard Noble (1969 Committee Member, Fishery Society); Clayton Hardy (Sec.-

Treas., Wildlife Society); Bruce Wilkins (President, Wildlife Society) met in

the seminar room, Fernow Hall, Ithaca, New York.

Extensive discussion resulted in the following points being generally agreed

to:

- 1 - A conference treasurer should be identified and he should be responsible for collecting and allocating all funds pertaining to the annual meeting and paying these expenses. He should rebate to the respective societies the amount of membership fees taken in at that conference. Additional assessment or return to the individual chapters would be prorated by the membership paid at that meeting.

2 - It was agreed that this group recommends to the program committees that

the annual meeting of the groups be held December 3-4, 1970, Thursday evening

and Friday in Syracuse, New York, Thursday evening being allocated to the

business meeting of the chapter.

3 - It was recommended that the Randolph House be contacted quickly as to

its availability for those dates and also noted that the Gotham Inn was eager

to have us back.

4 - It was recommended that no banquet be served but that a luncheon is

probably desirable. It was felt that some better means of handling meals and

meal charges needed to be set up. Preregistration, which would reduce the cost

of the luncheon by giving a more certain luncheon count, was one suggestion.

There was sentiment for doing away with the luncheon but it was indicated the

cost factor of room charges was not the only problem but one of getting that

many people fed in a restricted time period.

5 - There was extensive discussion of the means for chairing and directing

the conference. It was generally agreed that the concept we ought to work under

is one where each chapter presumes a joint meeting will be held unless respon-

sible individuals find they are unable to get a suitable topic of interest

to both chapters. This calls for substantial changes in the means of selecting

committees for the sole function of the fishery group and a major function of

the wildlife program committees are, in fact, this conference.

Discussion of how a conference chairman should be named resulted in no

specific agreement although there was a general tendency to support the idea

of two or three representatives from each chapter meeting as a conference

group to identify possible themes. These themes would then be brought to a

joint executive board meeting which in turn would approve the general theme,

identify a conference chairman and other individuals responsible for such things

as program, speakers, arrangements, etc.

6 - It was also suggested that the general program format of discussing

principles and then discussing application of these was well received and should

be continued.

7 - A discussion of possible topics for a 1970 meeting indicated general

interest in four possible topics. These were:

Remote sensing

Computers

Planning

Biopolitics - What are professionals actions and responsibilities?

The meeting was adjourned at 2:10 p.m.

Prepared by

Bruce T. Wilkins

MAR 5 1970
WILDLIFE SOCIETY
Ithaca, New York

Paul A. St...

9

THIRD MEETING TO ORGANIZE A NEW YORK
NATURAL RESOURCES CONFERENCE

Date: May 19, 1970

Place: Valle's Restaurant, Albany

Attended by: J. J. Karnig, C. P. Boone, W. W. Clingan, R. Griffiths, R. Greene,
J. Gould, H. E. Doig, R. Van Wie, R. Clingan, R. Griffiths, R. Greene,
J. Proud

The meeting convened at 1:30 P.M. following lunch with S.A.F., A.F.S.,
S.C.S.A. and T.W.S. represented. Progress made at the first two committee
meetings was reviewed.

Two new committee members were received. Henry Williams was appointed
to the Program Committee and Austin Patrick, Jr. was appointed to the
Arrangements Committee. Both represent S.C.S.A.

The Arrangements Committee reported that initial contacts have been
made with Grossinger's and that other prospective resort facilities would
be canvassed in the near future.

The Program Committee reported briefly on the general thinking that
has led to the determination of the conference theme. The names of Hinkel
and Udall were mentioned as possible speakers. It was also suggested that
consideration be given to the role of women and their organizations in
planning for the program. The President of the Federated Garden Clubs of
America was specifically mentioned.

The problem of financing prior to conference registration was discussed.
It was agreed that each sponsoring organization should be asked for \$50
in initial support for the conference. Members of the Steering Committee
are to contact their sponsoring organizations for the needed financing.

The Steering Committee was also asked to contact the major public
employer for each professional group to get some indication of their support
for the conference. It was felt that better attendance can be expected if
the Divisions in the Conservation Department and the Soil Conservation
Service extend expense reimbursement privileges to at least a portion of
members attending.

Publicity for the Conference will be coordinated by the Steering
Committee. Each organization's publicity committee will be tied to the
Information dissemination process.

Bureau of Fish
"PROPAGATION"

MAY 25 1970

RECEIVED
Conservation Department

Following is a schedule of events for working committees:

Arrangements Committee will have chosen facilities for the
Conference by June 1, 1970.

Program Committee will complete a topic agenda with suggested
speakers by June 15, 1970.

Contacts with speakers will be complete by August 1, 1970.

Strategy for publicity will be prepared by September 15, 1970.

Meeting of all committees in mid-September.

It was requested that names and addresses of all committee members and
progress reports be made available to all. (See attached address list.)

Meeting adjourned at about 2:30 P.M.

Committee Appointments

Arrangements Committee

W. W. Clingan, Chairman
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Robert Green
N.Y.S. Conservation Dept.
Division of Fish and Wildlife
21 South Putt Corners Road
New Paltz, New York 12561

John Proulx
N.Y.S. Conservation Dept.
Division of Fish and Wildlife
Route 10
Stamford, New York 12167

Austin L. Patrick, Jr.
Area Conservationist
S.C.S. Office
Executive Park North
Stuyvesant Plaza
Albany, New York 12203

Society Presidents

J. J. Karnig, Chairman
New York Section
Society of American Foresters
Harvard Black Rock Forest
Cornwall, New York 12518

Bruce Wilkins, President
New York Chapter
The Wildlife Society
Department of Conservation
Fermow Hall, Cornell University
Ithaca, New York 14850

Paul Neth, President
New York Chapter
American Fisheries Society
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Robert H. Walker, President
New York Section
Soil Conservation Society of America
158 Main Street
Mount Morris, New York 14510

Steering Committee

Herbert E. Doig, Chairman
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Stanley Anderson
P. O. Box 269
Fort Edward, New York 12828

Robert Griffiths
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Charles E. Boone
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Program Committee

John Gould, Chairman
N.Y.S. Conservation Dept.
Division of Fish and Wildlife
Route 10
Stamford, New York 12167

Robert Van Wie
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Ronald Bernhard
N.Y.S. Conservation Dept.
50 Wolf Road
Albany, New York 12201

Donald Behrend
Huntington Forest
Newcomb, New York 12852

Henry Williams
Deputy Director
N.Y.S. Office of Planning Coordination
488 Broadway
Albany, New York 12207

Conservation Department
RECEIVED
MAY 25 1970
PROPAGATION

MINUTES OF MEETING BETWEEN JIM FORBES AND HOWARD LOEB

ALBANY

3-4-70

The following points were discussed:

1. Time and Place: The meeting will be held on Thursday-Friday, December 3 & 4, 1970 in Syracuse at the Gotham Inn or Randolph House.

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Registration will take place between 5 and 8 on Thursday and 7:45 - 8:45 on Friday.

3. Business meetings: Meetings will be held in separate rooms capable of holding 120 people each, from 8 - 10 PM. Microphones, rostrum and front table will be provided.

4. Costs: Price of main and business meeting rooms, coffee, luncheon, microphones, expenses for speakers and mailing will be determined to make up registration fee. Bills will be paid by the Fishery Chapter Secretary-Treasurer.

5. Luncheon: Available to ticket holders only, between 12 and 1.

6. Program printing: Clayton Hardy will be asked to do the preliminary program mimeograph from information given by the program chairman. He will give 150 to each Secretary for distribution to members, universities, speakers, panel chairmen, news media, sportsmen groups, hotels, labor, and other interested people. Preliminary programs will be sent out in early October.

Ken - for you Dave

ms

ms

ms

12. Further with arrange with Herb Bois on design and
 of the program. The details of the
 program will be suggested.
 and will be connected
 of the program.

Activity	Time	Total
2 papers (17 min ea)	8-10 AM	1.0 hours
Coffee	10-10-30 AM	0.5
3 papers (17 min ea)	10:30-11:30 AM	1.0
Coffee	11:30-12 Noon	0.5
Discussion	11:30-12 Noon	0.5
Total		3.0
2 papers (17 min ea)	1:00-1:30 PM	0.5
Discussion	1:30-2:00 PM (20 minutes)	1.5
Coffee	2-2:30 PM	0.5
3 papers (17 min ea)	2:30-4:30 PM	1.0
Discussion	4:30-5:00 PM	0.5
Total		3.5

MS

1. The conference theme will tentatively be "The Role of the Society in the Management of the Firm".
2. The program will be introduced by one of the society presidents, and organized by the other.
3. Discussion: A 15-20 hour question and answer period will be held at the end of each session.
4. Programs: There will be a total of 12 papers, 6 during the morning session and 6 during the afternoon session. Papers will be approximately 15 minutes long.
5. The conference theme will tentatively be "The Role of the Society in the Management of the Firm".



118

CC: Jim Forbes
Paul Nash
Bruce Watkins

HOWARD V. LOBB
Program Chairman
NY State Chapter
American Fisheries Society

14. Each program chairman will complete the above tasks, make up a tentative list of papers and call the other. The next meeting will be held with the program chairman at DeGrace, where the program itself will be the agenda.

15. Bob will call Dick Jones on setting up physical arrangements, Cliff Green on printing of registration forms, and Clay Hardy on printing of preliminary program.

16. The final program should be ready by mid-October and sent out in early November. The final draft of the program should be ready by mid-October and sent to all non-members. The final draft to the same people. The fishery secretary will be sent one by the respective secretaries in the registration fee. The final program

NO

February 26, 1970

*Ken
For your
info*

Bob Griffith (Vice-President, Fishery Chapter); Howard Loblé ('70 Program Chairman, Fishery Society); Alfred Ripper (1969 Fishery Program Chairman); Richard Noble (1969 Committee Member, Fishery Society); Clayton Hardy (Sec.-Treas., Wildlife Society); Bruce Wilkins (President, Wildlife Society) met in the seminar room, Fernow Hall, Ithaca, New York.

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5 - There was extensive discussion of the means for chairing and directing the conference. It was generally agreed that the concept we ought to work under is one where each chapter presumes a joint meeting will be held unless response is one where individuals find they are unable to get a suitable topic of interest to both chapters. This calls for substantial changes in the means of selecting committees for the sole function of the fishery group and a major function of the wildlife program committees are, in fact, this conference.

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6 - It was also suggested that the general program format of discussing principles and then discussing application of these was well received and should be continued.

7 - A discussion of possible topics for a 1970 meeting indicated general interest in four possible topics. These were:

- Remote sensing
- Computers
- Planning
- Biopolitics - What are professionals actions and responsibilities?

The meeting was adjourned at 2:10 p.m.

Prepared by

Bruce L. Wilkins

Should create a subcommittee in fact what are responsibilities in this area - Ken

NEW YORK STATE CHAPTER
OF THE
FISHERIES AND WILDLIFE SOCIETIES
ITHACA - FERNOW HALL - 2/26/70

Attending:

Bruce Wilkins
Rich Noble
Al Eipper
Clayt Hardy
Howard Loeb
Bob Griffiths

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A. Eipper:

Problem associated with Program Committee functions

1. Meet early - started in 1969 on 7/1, 2 months too late.

2. Make physical arrangements far in advance.

3. Meeting (program) attendance poor and unannounced.

4. Need for Conference Chairman with total authority.

5. Program Chairman should come from geographic area of Society Presidents and perhaps some.

Program Theme Suggestions:

1. Computers in Resource Mgt.

Storage
Recovery
Problem solving

2. Remote sensing

Sonar
Telemetry
Infrared

3. Planning

4. Role of Professional Resource Managers in social
problem solving.

H. Loebl:

Will meet soon with H. Forbes and agree to then bringing
his committee together, follow soon with joint society
program committee meeting.

BHG
3/2/70

PROSPECTUS

1970 JOINT ANNUAL MEETING OF THE STATE CHAPTERS

OF THE

AMERICAN FISHERIES AND WILDLIFE SOCIETIES

Dear Members & Guests:

The program committees of both societies have concurred on an agenda, time, and place, for this year's joint annual meeting. The basic details are outlined below:

PROGRAM THEME: The Use of Computers in Fisheries & Wildlife Management, Research, and Husbandry.

TIME: From 10 AM, Friday, December 4 to 1 PM Saturday, December 5.

PLACE: Gotham Motor Inn, Syracuse. Thruway Exit 35

The Program Committees have chosen the above topic because it is appropos to today's fast moving activities. Computers are used everywhere to store data, sort data, run systems, and in general, to keep tabs and form conclusions from masses of facts. It might be said that computer-using organizations are often ahead of the game because they have the stored facts on tap, to be used when needed. In plain language, retrieval of data from a mass of paper in a file would be, by comparison, a long, costly, laborious process. Although computers are now used in fish and game work, the surface has only been scratched. The papers to be presented are intended to be a partial description of such use, leading to a better understanding of computers for all of us.

To quote a recent publication, a computer might be after your job! You can't beat it so you had better join it.

Are you an engineer? A computer will out-perform your trusty slide rule every time.

Are you a manager? Your competitor, with the aid of a computer, will be able to out-predict, out-design, and out-price you.

Are you anybody? Computers are involved in a lot of your everyday life, from your checking account to filling of your grocery needs by super-food chains.

Are you a fish or wildlife manager? Computers will handle the facts concerning your particular environment better than all of the tables and calculators now at your command.

Are you a hatchery foreman? A computer will, one of these days, be telling you when and where to raise and stock fish.

And this is only the beginning. It has been predicted that within 10 years, 75% of all occupations will be affected by computers.

What can computers do? They do dogwork. They do routine, repetitive things that people do, but they do them faster and at less cost. And they leave people free to do other, more important things.

What are computers doing now-a-days? They're keeping records, writing reports, making design calculations, building star-bound missiles, controlling shop processes, facilitating communication between people and machines, helping management make decisions, translating languages, proving theorems, playing chess and checkers, doing things practical, foolish, and fanciful, big, and little.

You'll be presented with some of these things during the meeting, especially as they may be related to the business of fish and game.

THE AGENDA IS AS FOLLOWS

FRIDAY, DECEMBER 4TH

10:00 - 12:00 AM Early registration

1:30 PM Welcome by Dr. Bruce Wilkins
President of the NYS Chapter
of the Wildlife Society.

- 1:35 - 4:30 PM Panel Discussion: Some Uses of Computers in Fisheries and Wildlife.
 Moderator: E. Forbes
 Chairman of Program Committee for
 the NYS Chapter of the Wildlife
 Society.
- 3:45 PM
- 4:30 - 6:00 PM
- 5:00 - 6:00 PM Hospitality Hour
- 6:00 - 7:00 PM
 Buffet Dinner, Gotham Motor Inn
- 8:00 - 10:00 PM
 Participants' Meetings

DOWN OF PART I

- 1:35 PM Data Processing - Past, Present,
 and Future
 by Martin, IBM Application
 Systems Center
 Syracuse, New York
- 1:55 PM Software System for the Analysis
 of Animal Position and Activity
 Data as Derived from Telemetry
 by Donald B. Siniff, Assistant
 Professor, James Ford Bell Museum of
 Natural History, University of
 Minnesota
- 2:15 PM Application of Computer Technology
 to Environmental Planning and
 Management
 by Michael J. Mahoney, Director,
 Computer Applications Inc.
 Albany, N.Y.
- 2:35 PM Coffee break
- 3:05 PM Computer Applications in Fisheries
 Work
 by Dr. Joel S. O'Conner, Biology
 Department, Brookhaven National
 Laboratory, Upton, New York

3:25 PM Massachusetts Trout Allocation
Program
Colton H. Bridges, Superintendent,
Bureau of Wildlife Research and
Management, Division of Fisheries
and Game, Westboro, Massachusetts

SATURDAY, DECEMBER 5TH

9:00 AM - 1:00 PM Technical session involving nine
computer demonstrations. The
audience will be divided into 9
groups which will separately
participate in each demonstration

Moderator: Howard A. Loeb
Chairman of Program Committee
NYS Chapter of the American
Fisheries Society

BREAKDOWN OF TECHNICAL SESSION

9:00 - 10:30 AM 4 demonstration periods of 20
minutes each, at 9:10, 9:30,
9:50 and 10:10

10:30 - 10:55 AM Coffee break

10:55 - 12:55 PM 5 demonstration periods of 20
minutes each, at 10:55, 11:15,
11:35, 11:55, and 12:15

12:55 PM Closing remarks by
Dr. Paul Neth, President of the
NYS Chapter of the American
Fisheries Society

COMPUTER DEMONSTRATIONS WILL BE

1. Calculation of Changes in Carrying Capacity Based on Animal Requirements and Range Supply

Aaron N. Moen, Asst Professor of
Wildlife Science,
Cornell University

Demonstration will be on a
desk-top "Wang 700"

2. Simulated Bear Population Dynamics

Gene McCaffrey, Biologist,
Delmar Laboratory, NYS Department
of Environmental Conservation

Demonstration will be on a desk-
top "Wang 380"

3. Estimating Survival Rates from a Sequence of "Annual" Releases and Recapture of Marked Fish

William D. Youngs, Department of
Conservation, Cornell University

Demonstration will be on a terminal
at the Inn via a tie-line to an IBM
computer at Cornell

4. The New York State Land Use and Natural Resources Inventory

Ronald L. Shelton, Center for
Aerial Photographic Studies,
Cornell University

Demonstration will be on a terminal
at the Inn via a tie-line to an IBM
computer at Cornell

5. Dynamic Modeling of Ecological Systems.

Geoffrey W. Crowley, Electronic Associates, Inc., Dedham, Massachusetts

Demonstration will be given on desktop analog and hybrid computers.

6. Audience Participation Demonstration

IBM Educator, IBM Application Systems Center, Syracuse, N.Y.

Demonstration will be on a terminal via a tie-line to a computer in Syracuse.

7. Audience Participation Demonstration

IBM Educator, IBM Applications Systems Center, Syracuse, N.Y.

Demonstration will be on a terminal via a tie-line to a computer in Syracuse.

8. Computer Programs for Wildlife Biologists Written in FOCAL Language

Robert J. Brick, Applications Engineer, Digital Equipment Corp., Rochester, NY

Demonstration will be on a PDP-12 laboratory computer.

9. Distance & Direction Calculation for Trap and Retrap Data

Robert Miller, Biologist, Delmar Laboratory, NYS Department of Environmental Conservation, Albany, NY

Demonstration will be on a desk-top "Wang 380"

Please plan NOW to attend. We are looking forward to seeing all of you in December. This includes administrative and hatchery personnel, researchers and managers, members and non-members, university people, technicians, and so on. Regardless of who you are, come one, come all.

Any inquiries should be forwarded to either of the following Program Committee Chairmen:

James E. Forbes
P. O. Box 150
11 North Pearl Street
Albany, New York 12201
Phone: (518) 472-6492

Howard A. Loeb
NYS Department of
Environmental Conservation
Livingston Manor, New York 12758
Phone: (914) 439-4228

EQUIPMENT SUPPLIERS FOR THE DEMONSTRATIONS

IBM Applications Systems Center
Syracuse, NY

Electronic Associates, Inc
Dedham, Massachusetts

Robert J. Brick
Digital Equipment Corporation
130 Allens Creek Road
Rochester, NY 14618

Louis Y. Roche
Wang Laboratories, Inc.
Suite 206
Latham Shopping Center
Latham, NY 12110

Michael J. Mahoney
Computer Applications, Inc
74 State Street
Albany, NY 12201

Fernow Hall
Cornell University
Ithaca, New York 14850

February 12, 1970

Jim Forbes
Room 315
Federal Building
P.O. Box 150
Albany, New York 12201

*Check with Westie -
on program prep -*

Dear Jim:

I am extremely pleased that you will be chairing the program committee for the New York State Chapter of the Wildlife Society in 1970.

I know you will need good men to serve with you on this committee and would urge you to contact Maurice Alexander, New York State College of Forestry, Syracuse, New York; Peggy Sauer, R.D. #1, Voorheesville, New York, 12186; Marvin Mobbs, 619 Five Mile Drive, Ithaca, New York, 14850; Eric Fried, Wildlife Research Lab, Delmar, New York, 12054; and Robert Myers, Soil Conservation Service, Midtown Plaza, Syracuse, New York.

I think you would recognize these are all capable people, you might wish to add some additional members.

I have incorporated two letters from members suggesting possible themes for 1970. In addition I would point out previous themes suggested include "Computers in Wildlife Management", "Aerial Photography" and "Telemetry". — *good*
Perhaps these topics could be thought of a "New techniques in managing wildlife".

I am sending a copy of this letter to the President of the fisheries chapter so that he may be appraised of our program plans.

I would be pleased to meet with your committee when it is deemed advisable. I would urge you to try to meet some time in the next month or two to get preliminary formulations for the meeting. In past years it has always come upon us so quickly that we wished we had started earlier. This year we have the opportunity to do so.

Howie
Great minds work in the same channels!

Again, Jim, I am pleased that you will be providing the leadership for the meeting of the chapter in 1970 and look forward to working with you in this new capacity.

Sincerely,

Bruce T. Wilkins
President
N.Y. Chapter
The Wildlife Society

Howie:

I spoke with Bruce Wilkins on Friday 2/13 and Al Epper on Monday 2/16 regarding the meeting in Ithaca. Al will be waiting for us on Thursday, February 26, at Fernow Hall. Meeting will be in his office at 11 AM.

I think Bruce will go for a combined meeting. Notice that one of the topics suggested is right up your alley (Computers).

If you have a conflict on this date please let me know and I'll try to have the time changed. I plan to leave directly from home and will see you there.

Paul

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

Mailing Address:
Fernow Hall, Cornell University
Ithaca, N. Y. 14850

January 20, 1970

Program Participants
New York Chapters, AFS/WS

Gentlemen:

My sincere thanks for both the quality and quantity of your work that made possible an excellent meeting at Syracuse last month. Many persons said they thought this was the best program of the Chapter to date, and it certainly seemed highly successful to me.

Paul Neth (this year's Chapter President) and I discussed briefly the possibility of the old program committee and the new one meeting sometime fairly soon - perhaps at Cornell - to discuss improvements that should be made in facilitating the program arrangements for another year. In other words, a chance for us to tell our successors what we would do differently if we had it to do over again. I'm hopeful that such a meeting can be arranged, and would appreciate any indications you might offer on whether or not you think this sounds like a sensible idea, and/or whether you might be able to attend. I realize not everyone will be able to.

Thanks again for an outstanding job.

Sincerely,



A. W. Eipper
Associate Professor

AWE:jd

CONSERVATION DEPARTMENT
1970

JAN 23 1970

RESEARCH

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

Mailing Address:
Fernow Hall, Cornell University
Ithaca, N. Y. 14850

January 16, 1970

Paul Neth
Coordinator of Federal Aid
New York State Conservation Dept.
State Campus
Albany, New York 12226

Dear Paul:

Do you by any chance anticipate being within striking distance of Cornell during the next month or so, preferably in company with whoever is the new chairman of the program committee for the New York Chapter, AFS? As I mentioned in our brief discussion at the Syracuse meeting last month, I think it would be very worthwhile if some of us who were on this past year's program committee could relay some of our impressions and advice for future meetings to the people who will be in charge of next year's arrangements. In addition to the purely selfish reasons (uppermost of course), I suggest Cornell because this would be a place where we could most easily assemble several of the people who were active in this past year's arrangements: Rich Noble, Bruce Wilkins, and Bill Youngs, for example. (Bruce was - and is again - President of the Wildlife Chapter).

My reasons for suggesting we do this fairly soon are twofold:
(1) To avoid a cardinal difficulty in last year's arrangements, the whole thing must start sooner.
(2) The longer we wait, the more of last year's lessons we'll forget.

Sincerely,



A. W. Eipper
Associate Professor

AWE:jd
cc: Bruce Wilkins
Bill Flick

CONSERVATION DEPARTMENT
RECEIVED

JAN 21 1970

156 30 00
-RES. 1 1 -



STATE OF NEW YORK
CONSERVATION DEPARTMENT

Division of Fish and Game

R. STEWART KILBORNE
Commissioner
W. MASON LAWRENCE
Deputy Commissioner
LEIGHTON A. HOPE
Deputy Commissioner
ROBERT E. YOUNG
Deputy Commissioner
IRWIN H. KING
Secretary

BUREAU OF FISH LABORATORY
RFD#1, LIVINGSTON MANOR, NY
12758

A. G. Hall
Director
(518) 457-5690
D. H. Wallace
Deputy Director
of Fish and Game
for Marine Region
(516) 585-5400
W. G. Bentley
Assistant Director
for Fish and Game
(518) 457-5690
W. J. Goodman
Assistant Director
of Law Enforcement
and Field Services
(518) 457-5680

PHONE: 914-439-4228

30 January 1970

Mr. Paul Neth
Supervising Aquatic Biologist
NYS Conservation Department
Albany, New York 12201

Dear Paul:

As per our conversation in Delaware, I will be happy to serve as program chairman for the 1970 combined meeting of the New York State Chapters of the American Fisheries Society and the Wildlife Society. I will be getting to work on this shortly.

Sincerely,

HOWARD A. LOEB
Chairman, Program Committee
New York State Chapter
American Fisheries Society

P.S. Could you send me a batch of stationary with the NYS Chapter letterhead?

HAL:DS

*Answered
2/4/70*

CONSERVATION DEPARTMENT
REC'D

FEB - 4 1970

FEB 4 1970

Misc. Corresp.

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY

FISHERY SCIENCE
FOREST SCIENCE
WILDLIFE SCIENCE
NATURAL RESOURCES
OUTDOOR RECREATION

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Thanks again for an outstanding job.

Sincerely,



A. W. Eipper
Associate Professor

AWE:jd

CONFIDENTIAL
MAR 12 1970
MINUTES OF MEETING BETWEEN JIM FORBES AND HOWARD LOEB
ALBANY

3-4-70

The following points were discussed:

1. Time and Place: The meeting will be held on Thursday-Friday, December 3 & 4, 1970 in Syracuse at the Gotham Inn or Randolph House.
2. Registration: It will include costs for luncheon (\$4.00), coffee (\$.50), microphones (\$.50), and speakers (\$3.00) for a total of \$8.00.

Registration will take place in a single room and will be recorded by each Secretary-Treasurer on forms prepared by Cliff Creech. Any money left over will be given back to each organization in proportion to attendance at each meeting.

Registration will take place between 5 and 8 on Thursday and 7:45 - 8:45 on Friday.

3. Business meetings: Meetings will be held in separate rooms capable of holding 120 people each, from 8 - 10 PM. Microphones, rostrum and front table will be provided.
4. Costs: Price of main and business meeting rooms, coffee, luncheon, microphones, expenses for speakers and mailing will be determined to make up registration fee. Bills will be paid by the Fishery Chapter Secretary-Treasurer.
5. Luncheon: Available to ticket holders only, between 12 and 1.
6. Program printing: Clayton Hardy will be asked to do the preliminary program mimeograph from information given by the program chairmen. He will give 150 to each Secretary for distribution to members, universities, speakers, panel chairmen, news media, sportsmens groups, legislators, and other interested people. Preliminary programs will be sent out in early October.

7. Panel Chairmen: Each program chairman will introduce a panel of speakers, either morning or afternoon. Each will find a moderator for the panel discussion at the end of each session.
8. Introductions: The program will be introduced by one of the Society presidents, and adjourned by the other.
9. Discussion: A half-hour question and answer period will be held at the end of each session.
10. Program: There will be a total of 13 papers, 6 during the morning general session and 7 during the afternoon technical session. Papers will be approximately 20 minutes long.

The conference theme will tentatively be Computers in the Fishery and Wildlife Management Professions.

11. Tentative program plan:

<u>Activity</u>	<u>Time</u>	<u>Total</u>
3 papers	9-10 AM (17 min ea)	1.0 hours
Coffee	10-10:30 AM	0.5 "
3 papers	10:30-11:30 AM (17 min ea)	1.0 "
Discussion	11:30-12 Noon	0.5 "
	Total	<u>3.0</u> "
Lunch	12:00-1:00 PM	1.0 "
Free time	1:00-1:30 PM	0.5 "
4 papers	1:30-3:00 PM (20 minutes) each	1.5 "
Coffee	3-3:30 PM	0.5 "
3 papers	3:30-4:30 PM (17 min ea)	1.0 "
Discussion	4:30-5:00 PM	0.5 "
	Total	<u>3.5</u> "

12. Forbes will arrange with Herb Doig on design and printing of final program. The services of Earl Westervelt and Bonnie Jackson will be requested. An outside printing establishment will be contacted if needed, and the cost will have to be figured

in the registration fee. The final program will be sent out by the respective Secretaries to the same people. The fishery secretary will send it to all non-members. The final draft of the program should be ready by mid-October and sent out in early November.

13. Loeb will call Dick Dumas on setting up physical arrangements, Cliff Creech on printing of registration forms, and Clay Hardy on printing of preliminary program.
14. Each program chairman will complete the above tasks, make up a tentative list of papers and call the other. The next meeting will be between the program chairmen at DeBruce, where the program itself will be the agenda.

HOWARD A. LOEB
Program Chairman
NY State Chapter
American Fisheries Society

CC: Jim Forbes
Paul Neth
Bruce Wilkins

CONSERVATION DEPARTMENT
RECEIVED

JUN 10 1970

MINUTES OF MEETING OF PROGRAM COMMITTEE OF N.Y.S. CHAPTER
OF THE AMERICAN FISHERIES SOCIETY, APRIL 27, 1970

NEW YORK STATE
FISH
RESEARCH

The meeting was held from 12:00 to 4:00 p.m., and the following members were present: Danskin, Doig, Griffin, Werner, and the Chairman, Loeb.

The following points were discussed:

I. Time and place. It was conveyed to us by the N.Y.S. Chapter of the Wildlife Society that the Division of Fish and Wildlife and they are agreed that a Friday-Saturday program would be feasible, if it were professionally advantageous. We agreed that this condition will be met by the subject matter of computerism. As it stands now, registration will take place from 11-12 noon and 5-8 p.m. on Friday, the 4th of December 1970. Separate business meetings will be held from 8 - 10 p.m. Friday night. The program itself will run from 1:30 - 4:30 p.m. on Friday the 4th and 9 a.m. and 1 p.m. on Saturday the 5th. This program format will allow for an early return home on Saturday and obviate the need for 2 nights away - especially in the case of bad weather.

II. The Friday afternoon session will last for 3 hours from 1:30 to 4:30 p.m. There will be a 5-minute welcome by Wilkins or Neth. 5 speakers will talk for 20 minutes each, and there will be a 45-minute discussion period, and a 3--minute coffee break.

The 5 speakers will be (tentative):

1. Dr. Don Siniff, University of Minnesota, "Computers in Wildlife Research".
2. Computer Applications, Inc., or Bob Scriphack, "Computer Applications in Wildlife Management."
3. Dr. Joel O'Conner, "Computers in Sport and Commercial Fisheries".
4. "Computer Uses in Hatchery Systems", or an alternate (i.e. Henry Regier). *Rocky Bridges*
5. A general speaker from the computer industry.

III. The Saturday morning session will be a work session or workshop lasting for 4 hours, from 9:00 a.m. to 1:00 p.m. The audience will be divided into 7 groups (by giving

*Contact
Administrative
Analyst*

each member a number when he registers). Each group will spend 30 minutes at each of 7 computer demonstration areas where simple prearranged problems will be solved. There will be a 30-minute coffee break from 11 to 11:30 a.m. and 5 minutes for closing comments by Neth or Wilkins.

Computer problem demonstrators will be (tentatively):

1. Aaron Moen, Cornell University, for wildlife.
2. Stuart Free, Delmar Laboratory, for wildlife.
3. Bill Youngs, Cornell University, for fisheries.
4. Ronald Shelton, Cornell University, (LUNAR, Land Use Natural Resources).
- 5 - 7. To be picked from the computer industry.

IV. Papers will be lined up during the next 2 months by Forbes and Loeb.

V. It will be difficult to make a meeting of this type interesting and dynamic. The very name "Computer" might reduce attendance. Brad Griffin will attempt to come up with the publicity necessary to stimulate interest in members of both the wildlife and fishery chapters.

VI. A meeting will be held in late summer to formulate the mechanics of program design, printing, advertising, and mailing.

CC: Jim Forbes
Paul Neth
Bruce Wilkins

CONSERVATION DEPARTMENT
RECEIVED

MAY 13 1970

BUREAU OF FISH
RESEARCH

May 12, 1970

Mr. Howard A. Loeb
Senior Aquatic Biologist
New York Conservation Dept.
RFD #1
Livingston Manor, New York 12758

Dear Howard:

The following is the proposed program we discussed over the phone on Friday, May 8th.

Friday
~~Thursday~~ Evening December ~~3rd~~ ^{4th} - 8-10 P.M. - Separate business meetings.

Saturday
~~Friday~~ December ~~4th~~ ^{5th} (Morning Session) 9-12 A.M. Welcome (Introduction) by Wilkins or Neth - 5 minutes.

Three Speakers - 20 minutes each for a total of 60 minutes.

Coffee break - 30 minutes (10:05 -10:35)

Two Speakers - 20 minutes each for a total of 40 minutes.

Discussion, questions, and commentary - 45 minutes.

The five speakers will be:

1. Dr. Don Siniff, University of Minnesota, "Computer in Wildlife Research".
 2. Computer Applications, Inc. (or Bob Scripback, "Computer Applications in Wildlife Management".
 3. Speaker - to be picked by Loeb.
 4. Speaker - to be picked by Loeb.
 5. General speaker from the Computer Industry - to be picked by Loeb & Forbes.
- Each speaker will give a twenty minute presentation.

Afternoon session - 1-5 P.M.

The audience will be divided into 7 groups. This will be done by writing a number from 1 to 7 on each members "Name Tag" when he registers.

Mr. Loeb

-2-

5/12/70

Computer problem demonstrators will be:

1. Aaron Moen - Cornell
2. Stuart Free - Delmar Lab.
- 3 & 4. - to be picked by Loeb.
- 5, 6 & 7. - to be picked by Forbes & Loeb -- IBM Control Data, etc.

We could divide the audience into 10 groups, which may be better because each group would be smaller, but then they would spend less time (20 minutes instead of 30 minutes) at each station. If we did this, we would pick 6 problem demonstrators (or 3 each) instead of 3 between us.

If this program is acceptable to you, let me know so we can start to contact our speakers (which should be completed by the end of May).

Sincerely yours,

James E. Forbes
Program Chairman
N.Y.S. Chapter
The Wildlife Society

cc: Paul Neth ✓
Bruce Wilkins

JEF/pk

APR 10 1970

MINUTES OF MEETING BETWEEN JIM FORBES & HOWARD LOEB

ALBANY

3 MARCH 1970

The following items were discussed:

- 1. A tentative program of 6 general session papers and 6 technical session papers was examined.
- 2. Forbes and Loeb will direct separate queries to respective committee members, soliciting additional ideas for the program.
- 3. A combined meeting will be held after 24 April.
- 4. Titles for the technical sessions will be evenly divided between fish and wildlife subjects.

Number 1 priority speakers will be contacted first and Number 2 priority second. Standby papers will be set up for possible emergency.

- 5. A number of agencies connected with computers will be contacted for program design and speakers.
- 6. Place of meeting will be the Gotham Inn.
- 7. It was agreed that it might be difficult making a program on computers as dynamic as necessary. Titles and sub-titles should be eye catching. Exhibits and demonstrations, with audience participation had better play a big part. The relationship to fish and game problems, especially as might concern the jobs held by non professionals, should be clearly shown.

CC: Jim Forbes
Bruce Wilkins
Paul Neth

HOWARD A. LOEB
Program Chairman
NYS Chapter
American Fisheries Society

DEPARTMENT OF CONSERVATION
NEW YORK STATE COLLEGE OF AGRICULTURE
A CONTRACT COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY
ITHACA, NEW YORK

FISHERY BIOLOGY
FORESTRY
NATURAL RESOURCES
OCEANOGRAPHY
VERTEBRATE ZOOLOGY
WILDLIFE MANAGEMENT

Mailing Address:
Fernow Hall, Cornell University
Ithaca, N. Y. 14850

February 17, 1970

MEMO TO: Rich Noble

FROM: Al Eipper

SUBJECT: Meeting of past and present program committees

We will be meeting on February 26 at 11 AM. Suggest we get together in my office initially. The group will include the two new program chairmen, the two "old" ones, Bruce Wilkins, Paul Neth and yourself. I will have to be absent from 11:15 to 12:05 (my class), but will rejoin you for lunch and a continuation of the discussion immediately following lunch.

AWE:jd

**cc: Bruce Wilkins
Paul Neth ✓**

CONSERVATION DEPARTMENT
RECEIVED

FEB 20 1970

RESEARCH

February 9, 1970

Dr. Alfred W. Eipper
Associate Professor
Cornell University
Fernow Hall
Ithaca, New York 14850

Dear Al:

I held up on answering your January 16 letter, hoping that I would see you at the N. E. Division meeting. Your kind offer has been relayed to Howard Loeb who has accepted the Chairmanship of the Program Committee of the New York Chapter. At the present time I am awaiting a sign from Howard and once received, will make final arrangements with you on a date, time and place.

At this stage, Ithaca sounds grand to me.

Best regards!

Sincerely,

Paul C. Meth, President
New York Chapter
American Fisheries Society

PCN/ja

cc: Howard Loeb
Program Chairman
N.Y.C. - A.F.S.

MEMORANDUM

TO

Jackie
Please make
1 photocopy of
each of these
Plans

*Program
Committee*

OK - letter dated 1/30/70

January 19, 1970

Mr. Howard Loeb
N.Y.S. Conservation Dept.
Fish Laboratory - RFD #1
Livingston Manor, NY 12758

Dear Howard:

At the first Executive Committee meeting of the New York Chapter of the American Fisheries Society, the main topic of discussion was the formation of working committees and appointments to those committees.

At this stage in our organizational development, the Program Committee is the most important, since our annual meeting revolves about the activities which this group develops. In fact, the success of these conferences hinges largely on the ability of the members of this committee to organize a program that will stimulate and challenge our members.

In the past, you have done a fine job as a speaker on two programs. However, I wonder if you would now be willing to accept an even greater responsibility as Chairman of the 1970 Program Committee. I realize that this will entail a major commitment in terms of time and effort on your part.

Other members that we are suggesting for the Committee include:

- George Danskin, RD #2, 555A Albany Post Rd., New Paltz, NY 12561
- Herbert Doig, 24 Ann Drive, Schenectady, NY 12303
- Russell Fieldhouse, 4 Lake Street, Stamford, NY 12167
- Bradley, Griffin, 487 Ringwood Rd., RD 2, Freeville, NY 12068
- Robert Werner, Fernow Hall, Cornell University, Ithaca, NY 14850

Howard Loeb
Page 2
January 19, 1970

If you do accept the chairmanship, I wonder if you would contact these men to determine their willingness to serve on the Committee. Bob Werner has already indicated that he will do so.

I hope that you will accept this appointment and would appreciate your reply as soon as possible.

Sincerely yours,

Paul C. Neth, President
New York Chapter
American Fisheries Society

PCN/ja

February 4, 1970

Mr. Howard Loeb
Senior Aquatic Biologist
Bureau of Fish Laboratory
RFD #1
Livingston Manor, New York 12758

Dear Howard:

Thanks for accepting the Chairmanship of the Program Committee for N.Y.C.A.F.S. I know that our members can depend upon you and your Committee to develop a fine program for 1970.

In this regard I have had some correspondence from Al Eipper in which he has offered to pass on much of the wisdom which he and several of the 1969 Program Committee members acquired as a result of working on last year's program. The correspondence is attached and it sounds like a good idea to me. Please let me know what your reaction is and if you want me to arrange a meeting with Al. If so, I will need to know what date(s) might be most convenient for you. I'd like to tag along.

I still should talk to Bruce Wilkins, President of the N.Y.C. Wildlife Society regarding a joint meeting of the two chapters. However, if we do go to Ithaca and he is there, perhaps we could settle this question at that time.

I will hold off on writing to Al until I hear from you. Stationery which you requested is enclosed.

Sincerely,

Paul C. Neth, President
New York Chapter
American Fisheries Society

PCN/ja
Enc.

Fee Hunting and Fishing:

- Fishing and Shooting Preserves
Robert Myers
U. S. Soil Conservation Service
- Public Land Users Fees
Clayton Hardy
U. S. Bureau of Sport Fisheries and Wildlife

Hunting and Fishing Opportunity:

- Rural Hunting and Fishing
Robert Harding
Division of Fish and Wildlife
N. Y. S. Conservation Department
- Urban Hunting and Fishing
Howard Loeb
Bureau of Fish
N. Y. S. Conservation Department

Other Recreational Uses of Outdoor Environments:

- Field Trials
Robert Perry
Division of Fish and Wildlife
N. Y. S. Conservation Department
- Aesthetic Enjoyment
Edward D. Holmes
Bureau of Fish
N. Y. S. Conservation Department

3:00 - 3:30 p. m.

Coffee Break

3:30 - 5:00 p. m.

Panel discussion resumes, including questions and commentary from the floor.

Adjournment

**Program Committees:
The Fisheries Society**

- A. Eipper, Chairman
- G. LeTendre
- M. Otis
- M. Pfeiffer
- W. Youngs
- R. Noble

The Wildlife Society

- D. Behrend, Chairman
- T. Moore
- N. Dickinson
- G. Elliot
- R. Franzen
- V. Husek

Joint Meeting

Fish and Wildlife Resource Conference

December 4-5, 1969
Gotham Motor Inn
Thruway Exit 35, Syracuse, N. Y.



Program Theme

**Meeting the Future Demands
on Our Fish and Wildlife Resources**

Sponsored by New York Chapters
of the
American Fisheries Society and The Wildlife Society

THURSDAY, DECEMBER 4

5:00 - 8:00 p. m.

Registration and Dutch Treat get-together

8:00 p. m.

Separate chapter business meetings, including a discussion of student needs

FRIDAY, DECEMBER 5

8:00 - 9:00 a. m.

Late Registration

9:00 - 10:15 a. m.

Panel Discussion:

Meeting the Future Demands on Our Fish and Wildlife Resources

Moderators:

Dr. Alfred W. Eipper

Department of Conservation

Cornell University

Dr. Donald F. Behrend

Department of Forest Zoology

SUNY College of Forestry at Syracuse University

Panelists:

Terrestrial Ecology and Resource Management:

Dr. J. R. Bider

Macdonald College, McGill University

Fishery Resource Management:

Dr. Henry A. Regier

Department of Zoology

University of Toronto

Forestry and Wildlife:

Dr. William Webb

Department of Forest Zoology

SUNY College of Forestry at Syracuse University

The Outdoorsman's Viewpoint:

Dr. Roger Latham

Outdoor Editor, Pittsburgh Press

Urban Aspects:

Dr. Richard McNeil

Department of Conservation

Cornell University

Legislative Aspects:

Mr. Donald Mitchell

Assemblyman, New York State Legislature

Other Users and Uses of Outdoor Recreational Resources:

Dr. Roland Clement

Vice President, Audubon Society

10:15 - 10:45 a. m.

Coffee Break

10:45 - 12:00 noon

Panel discussion resumes, including questions and commentary from the floor.

12:00 - 1:00 p. m.

Luncheon

1:30 - 3:00 p. m.

Panel Discussion:

Management Measures to Meet the Needs of Fishing and Hunting.

Moderators:

Herbert E. Doig

Central Planning Unit

N. Y. S. Conservation Department

Kenneth F. Wich

Bureau of Fish

N. Y. S. Conservation Department

Panelists:

Special Regulations:

Trophy Trout Fishing

Martin Pfeiffer

Bureau of Fish

N. Y. S. Conservation Department

Waterfowl Species Regulation

John Waters

U. S. Fish and Wildlife Service

This session of the Fish and Wildlife Resources Conference, the third such annual meeting sponsored jointly by the New York chapters of the American Fisheries Society and the The Wildlife Society, explore the future of our fish and wildlife resources in the light of population and technological explosions, trends in water and land use and the implications to availability for fishing, hunting and other recreational uses. Now more than ever before, it is imperative that these factors be clearly illuminated and the 20th century concept of conservation reevaluated to accommodate wise planning with a predicted limited supply. Questions involving sportsmen's demands, the promotion of less exotic species of fish and wildlife, enjoyment of landscape esthetics as an outdoor activity, and the influence of geography, culture and economics upon supply and demand of our future fish and wildlife resources are very real. Answers to quantitative and qualitative ways of achieving our goals are urgent. Your participation in this session will help provide some of these answers.