

# The Newsletter of the American Fisheries Society



Volume 17

November-December 1973

Number 85

## Editor Reinhart Appointed to JFRBC

Johanna M. Reinhart was recently appointed to the staff of the Journal of the Fisheries Research Board of Canada (JFRBC) where she will work under the direction of Dr. J. Cameron Stevenson, Editor of the Journal. She will report for duty in Ottawa in early 1974.

Miss Reinhart has been Editor of the *Transactions of the American Fisheries Society* for more than two years, coming to the Society from the Marine Biological Laboratory, Woods Hole, Massachusetts, where she was curator of the Gray Museum with the Systematics-Ecology Program.

The Society sincerely thanks Johanna for her dedicated work on the *Transactions*. Her efforts have improved the quality and quantity of the TAFS, and the excellence of the *Transactions* is due to the cooperative work of the editor and the authors whose papers have been accepted for publication. The American Fisheries Society congratulates the JFRBC in their choice of Miss Reinhart and the Society wishes her good luck in the new venture.

## AFS Southern Division Annual Meeting

The 22nd Annual Meeting of the Southern Division of the American Fisheries Society was held in conjunction with the 27th annual conference of the Southeastern Association of Game and Fish Commissioners in Hot Springs, Arkansas, October 14-17, 1973.

Southern Division President James P. Clugston presided over the business meeting during which one resolution was passed. New officers elected for 1973-74 are: F. G. Banks, President; L. Glenn McBay, President-Elect; Wendell Lorio, Secretary-Treasurer; and Southern Division representative to the parent Society Nominating Committee, Alex Montgomery.

Committee Chairmen for 1974 are: Auditing, Don Baker, North Carolina; Awards, John F. Dequine, Florida; C. W. Watson Award, Southern Division Representative, Bernard T. Carter, Kentucky; Fish Disease, Don Lewis, Texas; Local Arrangements and Publicity, Reid Tatum (Co-Chairman), Tennessee, and Bob Ross (Co-Chairman), West Virginia; Membership, John Hall, Georgia; Nominating, Barry Freeman, Mississippi; Past Presidents, Jim Clugston, Georgia; Pollution, Peter Pfeiffer, Kentucky; Program, Bill Rogers, Alabama; Reservoir, Bob Grinstead, Oklahoma; Resolutions, Archie Hooper, Alabama; Striped Bass, Forrest Ware, Florida; Trout, Donley Hill, Tennessee; Warm Water Streams (ad hoc), Dan Holder, Georgia.

Thirty-five papers were presented at the Hot Springs meeting with four read by title and two alternates.

The 1972 Awards Committee Chairman announced winners at the annual meeting in Knoxville, Tennessee. The first place award went to William Wegener (and co-author Dennis Holcomb), Florida; the second place award to Jack R. Snow, Alabama; and Honorable Mention to Frederic G. Smith, Georgia, Gedeon D. Pettit, Tennessee, and Bruce E. May, Florida.

The next Southern Division annual meeting will be held at the Greenbrier Hotel, White Sulphur Springs, West Virginia, in October 1974.

(Continued on page 2)

\*\*\*\*\*

NOTE: In an effort to reduce the costs of the AFS *Newsletter*, we are planning to use *cold type* rather than the *hot type* composition method used previously. The types are mixed in this Newsletter as there were several pages of overset (*hot type*) remaining which were set for the previous Newsletter. It would have been a waste of AFS money to have discarded it. The January-February 1974 Newsletter will be set completely in cold type. After you have seen that issue your comments on the readability of *cold type* composition will be welcome.

\*\*\*\*\*

## Season's Greetings from the AFS Staff



1st row - L to R: Tonia Brome, Johanna Reinhart, Patti Klein  
2nd row - L to R: Jeanne S. Provost, Dr. Richard A. Wade, Mary Frye, Betty Snyder

### RESOLUTION

#### "Proposal for A National Reservoir Fisheries Management Act"

WHEREAS, The "Proposal for a National Reservoir Fisheries Management Act" as presented by the Reservoir Committee of the Southern Division, American Fisheries Society suggests timely, important, and much needed legislation: now therefore be it  
RESOLVED, that the Southern Division, American Fisheries Society at its annual meeting in Hot Springs, Arkansas on the 16th of October, 1973, does endorse and support said proposal and further urges adoption of enabling legislation, and: be it further  
RESOLVED, that this resolution and the proposal be submitted to the American Fisheries Society for consideration.



1973-74 AFS Southern Division Officers L. to R.: James P. Clugston, Past-President; F. G. Banks, President; L. Glenn McBay, President-Elect; and Wendell Lorio, Secretary-Treasurer.

## U.S.—U.S.S.R. Sign Joint Pact

United States and Soviet marine scientists have signed an agreement aimed at the establishment of a joint marine environmental monitoring network, the Environmental Protection Agency announced recently. The network, when established, will make it possible to measure the effects of pollution on marine organisms on a continued basis and to disseminate the related data rapidly.

The pact was signed in Moscow on October 27, 1973 following almost two weeks of discussions held by the U.S.—U.S.S.R. Joint Working Group on the Effects of Pollutants on Marine Organisms. The cooperative program between the two countries is being carried out under the terms of the environmental pollution agreement signed by President Nixon and Soviet Chairman Podgorny in May 1972.

The protocol sets forth the first two steps that both sides will undertake in developing the proposed marine monitoring system. The first step calls for a marine journal to be published simultaneously in the U.S. and U.S.S.R. in English and Russian, respectively. To be issued bimonthly, the journal will be the first scientific journal to be published simultaneously in the two countries, and will contain articles reflecting the highest level of marine research being conducted in the U.S. and U.S.S.R.

The second step provides for the establishment of a scientist exchange program. Under this program, as many as 10 marine scientists from each of the two countries will exchange visits each year to lecture and to become acquainted with the state of the art in marine research in the host country. During the early stages of the program emphasis will be placed on research methodologies.

## The Newsletter

The Newsletter of the American Fisheries Society is published bimonthly at the Society's headquarters: Fourth Floor Suite, 1319 — 18th Street, N.W., Washington, D. C. 20036.

EDITOR ----- Richard A. Wade  
EDITORIAL ASSISTANT ----- Jeanne S. Provost

The Newsletter is designed to keep members informed about Society affairs and about professional activities in fisheries science and aquatic resources. Circulation is controlled and is restricted to members of the American Fisheries Society.

Copy intended for each number must be received in the editorial office at the above address not later than the end of the first month of each bimonthly period.

### Officers

RAYMOND E. JOHNSON, *President*, Division of Environmental Systems and Resources, National Science Foundation, Washington, D. C. 20550.

REEVE M. BAILEY, *President-Elect*, Museum of Zoology, The University of Michigan, Ann Arbor, Michigan 48104.

J. CAMERON STEVENSON, *1st Vice President*, Fisheries Research Board of Canada, 116 Lisgar Street, Ottawa, Ontario, Canada K1A 0H3.

ROBERT F. HUTTON, *2nd Vice-President*, National Marine Fisheries Service, Washington, D. C. 20235.

RICHARD A. WADE, *Executive Director*, American Fisheries Society, Fourth Floor Suite, 1319 — 18th Street, N. W., Washington, D. C. 20036.

## Letter to the Editor

I wonder if you would be so kind as to put in the *Bulletin* a notice of the loss of my professional library in route from San Luis Obispo, California, where I am on leave of absence from California Polytechnic State University's Department of Biological Sciences to the Departamento de Ecologia at the Universidad Simon Bolivar where I am directing the Ecology Department in its formation. Apparently the air-lines company lost all 12 boxes of books (500 lbs) which included all the reprints which I have been collecting since 1964 plus *Transactions of the American Fisheries Society* from that date and *Journal of the Fisheries Research Board of Canada* from 1968, plus all of the text-books and reference books which I had in the field of Fisheries and Limnology. Obviously it is a great personal loss, the majority of which cannot be replaced without help. I am not even sure what was lost, because my complete card file was also in the group.

I would very much appreciate it if members of AFS could send reprints in the areas of fish migration, anything on vision, olfaction, etc. in relation to migration, especially in trout and salmon. Also, in the area of Limnology, papers of a general nature which could be used in the classroom would be much appreciated. These can be sent to either of these addresses:

Department of Biological Sciences  
California Polytechnic State University  
San Luis Obispo, California 94301

Departamento de Ecologia  
Apartado Postal 5453  
Universidad Simon Bolivar  
Caracas, Venezuela

Prof. George W. LaBar, Jefe  
del Departamento de Ecologia

## Courtenay Honored by FAU

Dr. Walter R. Courtenay, Jr., an active member of the American Fisheries Society for several years, was chosen to receive Florida Atlantic University's (FAU) "Distinguished Teacher for 1972-73" award. Courtenay, who is in his eighth teaching year at FAU, addressed the fifth annual FAU Honor's Convocation on October 1, 1973.

He completed his undergraduate work at Vanderbilt University and received his M.S. and Ph.D. degrees from the University of Miami's Rosensteel Institute for Marine and Atmospheric Sciences under the direction of Dr. C. Richard Robins (AFS Chairman of the Names of Fishes Committee). Courtenay had previously taught at Duke, the University of North Carolina, and Boston University.

Dr. Courtenay was appointed by AFS President Raymond Johnson to serve as Chairman of the AFS Exotic Fishes Committee.

## New NMFS Director in Honolulu

Richard S. Shomura was recently named Director of the National Marine Fisheries Service (NMFS), Southwest Fisheries Center, Honolulu Laboratory, in Hawaii.

He has been with NMFS (and the Bureau of Commercial Fisheries) since 1950. Since 1970, Mr. Shomura served as Associate Director for Fisheries at the Regional Office in Terminal Island, California, and later as Director of the Tiburon Fisheries Laboratory.

Dr. Shomura has been a member of the American Fisheries Society since 1957.

## BSF&W Senior Scientist Snieszko Lectures in England

Dr. Stanislas F. Snieszko lectured on control of diseases of fishes in the United States, at the Fifth Fishery Management Training Course at Two Lakes, Romsey, Hampshire, England in October 1973. Mr. Alex Behrendt, organizer of the course, sponsored Dr. Snieszko's trip. Mr. Behrendt, owner of a trout-producing facility, recognized the need for additional training facilities for fishery management in Great Britain and initiated an annual training course at his own estate.

The 1973 course was attended by 120 persons and consisted of thirty one-half hour presentations, and a brief discussion period following each presentation. Lectures dealt with management, economics, water quality, commercial aspects of private fishing facilities, legislative aspects, fish nutrition and feeding, fish diseases and parasites, and fish disease control and prevention.

In addition to lecturers from Great Britain, the following foreign lecturers were invited: Dr. M. Rydlo, Austria (oxygen in water); K.H.L. Zabke and A. G. Beyer, Germany (dylox in the U.S. for parasite control); Professor Marcel Huet, Belgium (requirements for construction of fish farms); Dr. J. Vostradovsky, Czechoslovakia (put and take coarse fisheries); Dr. M. von Lukowicz, Germany (modern fish foods and fish feeding); Dr. S. F. Snieszko, U.S.A. (organization of research instruction and fish disease services in the U.S.A.); Professor Dr. N. O. Christensen, Denmark (preventive medicine in trout farming); and Dr. P. Lamarque, France (use of the electric trawl for fish population estimate in Madagascar).

Dr. Snieszko's present address is: Eastern Fish Disease Laboratory, Lcetown, Route 1, Kearneysville, West Virginia 25430, U.S.A.

## Greenwalt Chosen to Direct U.S. Fish and Wildlife Service

Lynn A. Greenwalt has been named Director of the Fish and Wildlife Service. Mr. Greenwalt has served as Assistant Director since May 1973. In 1970-1971 he was supervisor of the Service's game management agents in the Pacific region headquarters at Portland, Oregon.

Mr. Greenwalt is a career employee of the Service and began his Federal career with summer jobs on Wichita Mountains Wildlife Refuge in Oklahoma, from 1946 to 1952. Other Federal employment included work at the Arizona Cooperative Wildlife Research Unit, Bear Bridge Refuge, National Elk Refuge, Salt Plains Refuge, Bosque del Apache Refuge, Fish Springs Refuge, and the Regional Division of Refuges. He became associate regional supervisor of the Division of Refuges in Minneapolis before joining the Service's law enforcement arm.

Mr. Greenwalt's father, Ernest J., was a wildlife refuge manager for 34 years, and his wife's father, Frederick A. Cunningham, was a refuge manager for 20 years before retiring in 1963.

The American Fisheries Society welcomes Mr. Greenwalt aboard and pledges its cooperation to the new director of the Service.

## Dr. Linton to Coordinate N. C. Marine Programs

North Carolina Secretary of Administration William Bondurant has announced that Dr. Thomas L. Linton will become Director of North Carolina's newly created Marine Affairs Program Office. The new office has been established to help coordinate the various marine-related programs in several agencies of the State.

In a companion announcement, North Carolina Secretary of Natural Resources, James E. Harrington, announced that Edward G. McCoy has been named to succeed Linton as the State's Commissioner of Commercial and Sports Fisheries, and that the Commissioner's office would be relocated from Raleigh to Morehead City. Prior to his appointment, McCoy had served as Chief of Research and Development for the Bureau of Commercial and Sports Fisheries.

Dr. Linton has been a member of the American Fisheries Society since 1961.

## ERF Research Conference

The Estuarine Research Foundation (ERF) held its second international research conference at Myrtle Beach, South Carolina, October 15-18, 1973. There were a total of 850 participants attending the sessions entitled *Recent Advances in Estuarine Research*. The program was divided into six subject areas, each with its own responsible convener. The areas were: *Cycling of Elements in Estuaries*, convened by J. H. Carpenter; *Use of Vegetation in Coastal Engineering*, convened by Thorndike Seville, Jr.; *Dynamics of Food Webs in Estuaries*, convened by John Costlow; *Estuarine Dredging Problems and Effects*, convened by Thorndike Seville, Jr.; *Coarse Grained Sediment Transport and Accumulation in Estuaries*, convened by Miles Hayes; and *The Estuarine System*, convened by R. B. Williams. According to L. E. Cronin, Foundation President, the papers will be collected and published at the earliest possible date as a complete volume entitled *Recent Advances in Estuarine Research*.

New officers elected at the meeting were Perry Jeffries, President; Andrew McErlean, Vice President; Jerome Williams, Secretary; and Michael Costagna, Treasurer. The next conference of the Foundation is scheduled for October 1975.

## Western Association Adopts Resolutions

The Western Association of State Game and Fish Commissioners adopted 25 resolutions at their annual convention held jointly with the Western Division of the American Fisheries Society, July 13, 1973, in Salt Lake City, Utah. Four of those resolutions follow:

### Resolution No. 2

#### Stream Alteration Projects

WHEREAS, publicly constructed or subsidized stream alteration projects for flood control, irrigation, power generation, drainage, municipal and industrial use, and other purposes often result in destruction of wildlife habitat, and

WHEREAS, these projects may cause irreparable damage to waterways and related land and water resources, and

WHEREAS, compensatory measures for fish and wildlife are either lacking or inadequate, now therefore be it

RESOLVED, that the Western Association of State Game and Fish Commissioners reaffirms its vigorous opposition to publicly funded stream alteration projects, both existing and proposed, until natural resource values and recreation opportunities are comprehensively evaluated and resource mitigating recommendations are included as an integral part of the project and project cost, and be it further

RESOLVED, that the Association encourages and supports administrative directives and legislative programs which will ensure protection and enhancement of fish and wildlife resources, and be it further

RESOLVED, that this Resolution be sent to the Director of the Bureau of Sport Fisheries and Wildlife, the Secretary of the Interior, the Secretary of Agriculture, the Secretary of Defense, and the Governors of the States.

### Resolution No. 3

#### Federal Water Project Recreation Act

WHEREAS, no action has been taken regarding Resolutions pertaining to modification of the Federal Water Project Recreation Act submitted in the 1971 and 1972 annual meetings of the Western Association of State Game and Fish Commissioners, and

WHEREAS, the Act (P. L. 89-72) requires that full consideration be given to recreation enhancement as a purpose of federal water projects, and

WHEREAS, the Act further provides that a non-federal public body must execute an agreement before construction to administer land and water areas for recreation enhancement and to repay all cost of operation, maintenance and replacement of facilities plus at least one-half of all construction costs and project modifications, including water for a recreation pool and evaporative loss, which are specifically allocated to recreational uses, and

WHEREAS, fiscal limitations would prevent adequate administration of the areas, and impose inequitable cost-sharing responsibilities on state and local political subdivisions who rarely have adequate funds to meet cost-sharing obligations, now, therefore, be it

RESOLVED, that the Western Association of State Game and Fish Commissioners reaffirms its recommendation that the Federal Water Project Recreation Act (P. L. 89-72) be repealed or amended to make costs of facilities nonreimbursable for anadromous fish, migratory waterfowl, endangered species and estuarine resources, and also for water control and storage and control facilities; eliminate the \$28 million limit on land purchased for waterfowl as part of water projects; ensure separable costs of basic access, sanitary, and safety facilities would be Federal costs; ensure fish and wildlife losses will be satisfactorily compensated before enhancement features are cost-shared; and ensure the interest requirement would be waived on cost-share repayments, and be it further

RESOLVED, that this Resolution be sent to the President of the United States, the members of Congress of the United States, the Secretary of the Interior, and the Secretary of the Defense.

### Resolution No. 4

#### Federal Legislation, H.R. 75, Relating to Fish and Wildlife Programs on Federal Lands and Fee to be Charged

WHEREAS, Federal legislation (H. R. 75) has been introduced to amend the Sikes Act (P. L. 86-797) to extend conservation programs on military lands, and

WHEREAS, this same legislation includes a new section of laws that calls for comprehensive planning and implementation of plans on public lands, and

WHEREAS, this new section also includes provision that would require a public land management area stamp for hunting, fishing, and trapping to finance wildlife programs on all public lands, and

WHEREAS, H. R. 75 is similar to previously introduced legislation which was opposed by the Western Association of State Game and Fish Commissioners, and

WHEREAS, those measures were opposed on the basis of existing planning, development, and coordination being carried out on Federal lands, and

WHEREAS, fees charged to hunters, fishermen, and trappers on federal lands would place another special use fee on the already overburdened sportsman, and would reduce the states' opportunities to increase fees when needed, now, therefore, be it

RESOLVED, that the Western Association of State Game and Fish Commissioners supports that portion of H. R. 75 concerning military reservations but requests the Congress to delete that portion of the legislation calling for comprehensive planning and the provision for states to collect special land use fees for use on Federal lands, and be it further

RESOLVED, that the Association urges Congress to consider that funds for wildlife management programs on public lands be derived from other sources such as mineral leases, timber sales and grazing fees, and be it further

RESOLVED, that this Resolution be sent to the Chairman of the House Committee on Merchant Marine and Fisheries and authors of the legislation.

### Resolution No. 5

#### Fish and Wildlife Management and Public Access on Military Installations

WHEREAS, the Department of Defense has issued directives to implement the Sikes Act (P. L. 86-797) to carry out fish and wildlife management and conservation measures on military reservations, and

WHEREAS, these directives call for public use and access to military installations when such use does not interfere with the military mission of such installation, and

WHEREAS, fish and wildlife management and public access programs are usually determined by the commanding officer, and

WHEREAS, some commanding officers have not given desired consideration to these programs, now therefore, be it

RESOLVED, that the Western Association of State Game and Fish Commissioners requests that the Secretary of Defense establish a compliance committee composed of military and civilians with expertise in these programs and the military missions, and be it further

RESOLVED, that this committee periodically inspect and review installation compliance with Department of Defense directives relating to fish and wildlife management and public access activities and report their findings to the Secretary of Defense.

## Gehringer Appointed Deputy Director of NMFS

Mr. Jack W. Gehringer has been named Deputy Director of the National Marine Fisheries Service (NMFS). Prior to his appointment, Mr. Gehringer served as Director of the Southeast Region of NMFS, an agency of the Commerce Department's National Oceanic and Atmospheric Administration (NOAA), since 1972.

Mr. Gehringer succeeds Robert W. Schoning who was earlier appointed by the Secretary of Commerce as Director of NMFS. As Deputy Director, Gehringer will work with Director Schoning in planning, developing, coordinating, and administering the Service's diverse research efforts and fisheries programs.

A well-known fishery scientist and administrator, Mr. Gehringer is the author or co-author of numerous scientific publications on various fisheries topics. He joined the Federal Fisheries agency in 1950 as a marine biologist with the Galveston, Texas laboratory. Later he was transferred to the Brunswick, Georgia laboratory where he was a program leader, assistant laboratory director, and later acting laboratory director until 1969. Mr. Gehringer then served as acting deputy regional director of the Southeast Region and in 1970 was named associate regional director.

He holds a bachelor of science degree in fisheries from Colorado A & M and is a member of several professional fisheries societies and institutes. He has been a member of the American Fisheries Society since 1957.

## Mr. Rees is New Fisheries Attache to Mexico

The Commerce Department's National Oceanic and Atmospheric Administration (NOAA) recently announced the appointment of George H. Rees, a career employee of the National Marine Fisheries Service (NMFS), as U. S. Regional Fisheries Attache to Mexico.

Mr. Rees reported to his new post in Mexico City in mid-July. Until recently, he was a staff assistant with the NMFS Technical Advisory staff in Washington, D.C., dealing with fundamental and applied research on shrimp, lobster, crab, and oysters. Previously—from 1968 to 1971—he was fishery advisor to the U.S. AID Mission to Brazil stationed in Recife. In that position, he was engaged in helping to increase production in freshwater fisheries and in training Brazilian nationals in fisheries work.

Fisheries attache assignments in foreign countries are filled by NMFS employees assigned to the Department of State as Foreign Service Reserve Officers. Their duties include reporting to U.S. authorities on fishery and marine resources developments over wide geographic areas; representing the U.S. Government in fisheries meetings and activities in region of assignment; assisting the U.S. fishing industry in locating both markets and sources of supply overseas; and reporting on economic, political, scientific, and legal developments in fisheries within the regions, which may impact on the U.S. Government and industry.

Robert W. Schoning, Director of NMFS said: "Mexico and the United States have enjoyed a long and most productive relationship in fisheries matters. With Mr. Rees' assistance, we look forward to the continued expansion of cooperative actions by our two countries, the focus of which is the rational utilization of marine resources of common concern."

## Resolutions Concerning the Panama Canal

Similar resolutions concerning the maintenance of the existing freshwater barrier in the Panama Canal were passed by the Biological Society of Washington (May, 1973), The American Malacological Union (June, 1973) and the American Society of Ichthyologists and Herpetologists (June, 1973). In order to conserve newsletter space, only the resolution of the American Society of Ichthyologists (ASIH) is published. A copy of the resolution passed by the Biological Society of Washington or The American Malacological Union may be obtained by writing directly to the organization concerned.

### ASIH Resolution No. 5

WHEREAS, Gatun Lake forms an effective freshwater barrier against the migration of a vast majority of the marine biota of the two oceans at either end of the Panama Canal, and

WHEREAS, there is an ever-increasing number of transits of the Canal and a concomitant increase in the amount of water required for the lockages of ships, and

WHEREAS, the Panama Canal Company is beginning a series of studies that could culminate in the pumping of sea water into Gatun Lake or Miraflores Lake, and

WHEREAS, sea-water pumping into either Gatun Lake or Miraflores Lake could modify the Gatun Lake environment by creating a brackish or marine lake which would have effects similar to those of a sea-level canal in allowing the mixing of Atlantic and Pacific organisms, with potentially dangerous results, therefore be it

RESOLVED, that the American Society of Ichthyologists and Herpetologists meeting in San José, Costa Rica, in June 1973, opposes as ecologically irresponsible any plan that might promote interocean transport of the biota, and be it further

RESOLVED, that the Panama Canal Company be encouraged to utilize alternatives to the pumping of sea water into either Miraflores or Gatun Lake, be it further

RESOLVED, that this resolution be sent to the Governor of the Canal Zone, Minister of Exterior Relations of the Republic of Panama, Committee on Merchant Marine and Fisheries, U.S. House of Representatives, Secretary-General Organization of American States, Council on Environmental Quality, Environmental Protection Agency, and Army Corps of Engineers.

## McKernan Resigns

Ambassador Donald L. McKernan, Coordinator of Ocean Affairs, State Department, will resign from his official government position effective January 1, 1974. Ambassador McKernan is leaving the State Department to accept a position as Professor of Fisheries and Marine Affairs at the University of Washington.

A native of the Northwest U.S., Donald McKernan received his B.S. and doctorate degrees from the University of Washington College of Fisheries and the Graduate School. His work history has included such positions as fishery research biologist, Assistant Director of Pacific Oceanic Fisheries Investigations with the Fish and Wildlife Service, Administrator of Alaska Commercial Fisheries, and Director of the Bureau of Commercial Fisheries (Interior Department) which he held for years before accepting his current position in 1966. He has served as an advisor on numerous international fishery negotiations.

## International Game Fish Research Association Annual Conference

The 16th Annual International Game Fish Research Association (IGFRA) Conference was held in New Orleans, October 29-30, 1973. Dr. Donald P. de Sylva, conference chairman, assembled eleven well-informed speakers who gave excellent papers on the theme "The Law of the Sea and the Angler." Mr. Burdick Brittin, Deputy Coordinator for Ocean Affairs, U. S. Department of State, was convincing as he presented views on the 200-mile limit in his paper, *The Law of the Sea and Sport Fisheries* as seen by an insider. Mr. D. Otis Beasley, a former Assistant Secretary of the Interior, took another tack and was equally convincing in his presentation, *The Law of the Sea from the Viewpoint of a Biased Angler*. Gene Huntsman, Harvey Bullis, Louis Rivas and Frank Mather also made excellent presentations on the effects of foreign fishing on sport fishing, U.S. surveillance of foreign fishing fleets, results of the Skylab Oceanic Game Fish Project, and the bluefin tuna situation.

The following resolutions were passed at the Conference; however, they do not imply the endorsement of the International Oceanographic Foundation:

"In view of the numbers of marine anglers and the economic significance of recreational fishing, the participants of the 16th annual International Game Fish Research Conference held in New Orleans, Louisiana, October 29-30, 1973, request of the Secretary of State and the Secretary of Commerce that one of the commissioners to the November 1973 meeting of ICCAT be a representative of marine anglers and that the composition of the United States delegation include appropriate representation of sport fishing interests."

"That the participants of the 16th annual International Game Fish Research Conference held in New Orleans, Louisiana, October 29-30, 1973, request that the Secretary of State and the Secretary of Commerce support the immediate extension of United States jurisdiction over living and non-living marine resources to a seaward limit of 200 miles."

The American Fisheries Society in its 1972 Resolution passed at Hot Springs, Arkansas, supports the 200-mile limit.



AFS Member Frank J. Mather of the Woods Hole Oceanographic Institution delivers his paper "The Bluefin Tuna Situation" at the 16th Annual International Game Fish Research Conference in New Orleans.

## Federal Legislation

The following bills pending before Congress are of interest to Society members:

*Fish Restoration and Management Projects* — H.R. 11016. Introduced by John Dingell (MI) and several colleagues. Imposes a tax on the sale of sport fishing and underwater swimming equipment to provide revenue to aid states in fish restoration and management projects under the provisions of the Act approved August 9, 1950. Referred to the Committee on Merchant Marine and Fisheries.

*Enforcement of Ocean Dumping Laws* — H.R. 11227. Introduced by Charles Wilson (TX) and one colleague. Amends "Title I of the Marine Protection, Research, and Sanctuaries Act of 1972" in order to facilitate enforcement of the ocean dumping laws by requiring that dye or other visual marking be used to identify where wastes are dumped. Referred to the Committee on Merchant Marine and Fisheries.

*Anadromous Fish Conservation Act* — H.R. 6369. Introduced by Congressmen Sullivan (MO), Dingell (MI), Mailliard (CA), and Pritchard (WA). The Subcommittee on Fisheries and Wildlife Conservation and the Environment of the House Merchant Marine and Fisheries Committee has reported the Act to the full Committee. This bill is designed to extend the authorizations for programs under the Act and to clarify duties of the Secretary of the Interior. As reported by the Subcommittee, the Act is extended for five years and \$10 million per year is authorized for programs established by the Anadromous Fish Conservation Act. In addition, the program is broadened to include sea lamprey control. No action has yet been scheduled on this bill by the full Committee.

## South Carolina Outlaws Walking Catfish

South Carolina Chief of Fisheries, H. J. Logan, informed the Society that Governor C. West, on June 15, 1973, signed into law a bill that amends Act 918 of 1970, "Making it unlawful to import, possess or sell the Walking Catfish, *Clarias batrachus* . . ." Section 1 of Act 918 of 1970 is amended to read as follows:

"Section 1. No person, firm, corporation, partnership or association shall possess, sell, offer for sale, import, bring or cause to be brought or imported into this State, or release into any waters of this State any of the following fish: 1) Carnero or Candiru Catfish (*Vandellia cirrhosa*), 2) Freshwater Electric Eel (*Electrophorus electricus*), 3) White Amur or Grass Carp (*Ctenopharyngodon idella*), 4) Walking Catfish, or any member of the Clariidae family (*Clarias*, *Heterophneustes*, *Gymnallables*, *Channallables*, or *Heterobranchus* Genera), 5) Piranha (all members of *Sersalmus*, *Rooseveltilla*, and *Pygocentrus* genera), 6) Stickleback, 7) Mexican Banded Tetra, 8) Sea Lamprey.

*Provided, however*, that the Wildlife and Marine Resources Department may issue special import permits to qualified persons for research purposes only.

The Department shall prescribe the methods, controls and restrictions which are to be adhered to by any person or his agent to whom a special permit under the provisions of this section is issued. The Department is authorized to promulgate such rules and regulations as may be necessary to effectuate the provisions of this act and the Department, by rule and regulation, is specifically authorized to prohibit additional species of fish from being imported, possessed or sold in this State when, in the discretion of the Department, such species of fish are potentially dangerous."

## Minnesota Chapter

The 6th Annual Meeting of the Minnesota Chapter of the American Fisheries Society was held in Duluth on March 23, 1973. Over 90 people attended the one-day meeting. Elected officers for 1974 are: President—Duane Shodeen, Department of Natural Resources, St. Paul; President-Elect—Dr. Charles Holt, Bemidji State College; and Secretary-Treasurer—Jack Skrypek, Department of Natural Resources, St. Paul.

The chapter is attempting to establish a standing committee on "Distribution of Minnesota Fishes." Since fish status and distribution records are widely scattered in various institutions and agencies throughout the state, they hope to promote consolidation of this information at a central source.

## Literature of Interest

*Federal Aid in Fish and Wildlife Restoration Manual*, Revised June, 1973. U. S. Bureau of Sport Fisheries and Wildlife. Copies have been distributed by the Federal Aid Office to each state agency and the Bureau's regional offices. Copies soon will be available from U. S. Government Printing Office, Washington, D.C., 20402. The changes detailed in this manual take effect July 1, with the new information on reporting of particular interest to all researchers.

*Are Hatcheries and Spawning Channels Alternatives to Stream Protection?* by D. W. Narver. Fisheries Research Board of Canada, Pacific Biological Station, Nanaimo, B.C., Canada. 1973. 11 pp. (Circular No. 93.) Obtain from the issuing agency. An argument for strict and rational stream protection measures to protect total fishery values of forested streams likely to be degraded by logging.

"A Device for Alleviating Supersaturation of Gases in Hatchery Water Supplies," by B. A. Dennison and M. J. Marchyshyn. Included in *Progressive Fish-Culturist*, Vol. 35, No. 1, p. 55-58, January, 1973. Year's subscription, \$2.50; single issue 75c. U. S. Government Printing Office, Washington, D.C., 20402. The basis of this report is a diagram with specifications for a 300 gpm degasser unit with explanation of why and how the various parts work. Originally designed for super-oxygenated water, it can be equally effective for nitrogen in water.

*An Electric Detector System for Recovering Internally Tagged Menhaden, Genus Brevoortia*, by R. O. Parker, Jr. U.S. National Marine Fisheries Service, 1972. 7 p. \$0.25. (NOAA Technical Report NMFS SSRF-654.) For sale by the U. S. Government Printing Office, Washington, D. C., 20402. Operation and results are described of an electronic detector-recovery system for fish with internal ferromagnetic tags.

*Evaluation of Channel Catfish, Ictalurus punctatus (Rafinesque) in New Jersey*, by R. W. Stewart and W. S. Muraski. New Jersey Department of Environmental Protection, Division of Fish, Game and Shellfisheries, Labor and Industry Bldg., Box 1390, Trenton, N.J., 08625. 1973. 27 p. N.J. F-3-R, F-9-R, and F-23-R, unpublished. (Miscellaneous Report No. 37.) A few copies may be available from the issuing agency. The Library Reference Service can provide photocopy. Channel catfish have proved to be a valuable sport fish for a wide variety of New Jersey lakes and ponds. Hatchery-reared fish gave high returns but were intolerant to acid water conditions existing in some parts of the state and could not reproduce successfully after stocking. A continuous stocking program must be carried out if hatchery-reared fish are used. Delaware River wild fish gave reasonable high angler returns but have a tendency to move downstream out of a lake and do not grow satisfactorily under lake conditions.

*Population Dynamics of Largemouth Bass in an 808-Hectare Oklahoma Reservoir*, by Paul L. Zwiackier. Ph.D. dissertation. 1972. 137 p. Oklahoma State University. Obtain from University

(Continued on page 8)

## TWS Council Statement

The Wildlife Society Council at its meeting at Hot Springs, Arkansas, in October 1973, approved the following environmental statement:

## The Marine Environment

The quality of the marine environment affects the stability of the marine ecosystem, the abundance of marine food resources for human use, and the aesthetic and recreational values of coastal regions and islands. Moreover, the marine ecosystem contributes one-third of the earth's net production of energy.

The continuing absolute growth of the world's human population is contributing to the degradation of this vital marine environment. Oceans are becoming the ultimate repositories of many pollutants, including chlorinated hydrocarbons, heavy metals, acids, radionuclides, oils, and organic wastes. Although some of these contaminants have had a detrimental impact on certain species of phytoplankton, invertebrates, fishes, birds, and mammals, the effects of the pollutants on the majority of marine organisms are virtually unknown. Man's failure to implement biologically sound management programs for marine fauna at both national and international levels has resulted in the precipitous decline in abundance of certain invertebrates, fishes, and mammals.

Man's ability to maintain the marine environment in a quality condition and to manage it with biological acuity may well constitute a key to his future survival.

Therefore, it is the policy of The Wildlife Society to:

1. Promote the establishment of both national and international programs to monitor pollutants entering the marine ecosystem, to control or detoxify wastes at the sources of pollution, and to research the effects of pollutants on the marine ecosystem.
2. Encourage legislation designed to promote sound management of the marine environment, including establishment of biologically sound quotas for harvesting marine plants and animals.
3. Support the enactment and enforcement of laws designed to protect the marine environment.
4. Advocate governmental acquisition and preservation of coastlines, estuaries, oceanic islands, and unique waters throughout the world.

## GCFI Annual Meeting

The 26th Annual Session of the Gulf and Caribbean Fisheries Institute (GCFI) was held October 28 — November 1, 1973 in New Orleans. The Institute addressed itself to a full agenda of current topics of interest to marine commercial fisheries and to the living and physical resources that sustain them. Four main sessions were held including two Sea Grant sessions and one each on *Industry Issues and Answers*, and *Caribbean Fisheries and Current Research*. A menhaden symposium entitled, *Is Management of the Menhaden Feasible?* was moderated by Joseph V. Colson, Executive Director of the Gulf States Marine Fisheries Commission.

GCFI's Executive Director James Higman announced that the 1974 meeting would be held in mid-November 1974 at the Carillon Hotel, Miami Beach, and the 1975 meeting may be held in Mexico City. Higman, a ten-year member of the American Fisheries Society is a staff member of the Rosensteil Institute of Marine and Atmospheric Sciences, University of Miami.

## In Memoriam

Lawrence Bailliere  
Wilbur M. Tidd  
Lawrence L. Chamberlain

Microfilms, Xerox Education Group, 300 North Zeeb Road, Ann Arbor, Mich., 48106. Objectives of the study were to estimate density, mortality, movement, growth and net production of largemouth bass in Lake Carl Blackwell, Okla. Estimates of these population parameters give a better understanding of natural fish production and a base line for evaluating the production possible with a management program.

"A Simple Egg Box Planting Technique for Estimating the Survival of Eggs Deposited in Stream Gravel," by G. S. Harris. Included in *Journal of Fish Biology*, Vol. 5, No. 1, p. 85-88. January, 1973. Journal published by Academic Press, 111 Fifth Ave., New York, N. Y., 10003. Egg boxes simply and cheaply made by soldering together sections of perforated woven plastic screening are useful in determining survival to a standard stage of development without loss of dead eggs from the gravel. Egg survival can be accurately calculated using this technique.

*Textbook of Fish Culture: Breeding and Cultivation of Fish*, by Marcel Huet (in collaboration with J. A. Timmermans). Fishing News (Books) Ltd., London, England. English translation of *Traite de Pisciculture*, fourth edition, 1972. 436 p. L12.50. This English edition will enable a wider use of the treatise by fish culturists in many parts of the world. The classified bibliography at the end of the book will be of particular value to students and research workers.

"Ultrasonic Transmitters for Tracking Channel Catfish," by C. D. Ziebell. Included in *Progressive Fish-Culturist*, Vol. 35, No. 1, p. 28-32. January, 1973. The use of internal ultrasonic transmitters for investigating channel catfish behavior provides much information that cannot be obtained by conventional fisheries gear. More definitive data can be obtained by tagging at least six to eight fish with transmitters at the same time and checking the tagged fish often.

*Uptake of Toxic Water Pollutants (PCB) by Lake Trout*, prepared by Northern Michigan University, Department of Biology, Marquette, Mich., 49855. 1973. 19 p. (PB-214 768/4.) Obtain from the National Technical Information Service, Springfield, Va., 22151. Paper copy, \$3.00; microfiche, \$0.95. Lake trout taken from North America's largest oligotrophic lake, Lake Superior, were analyzed to find the content of polychlorinated biphenyls (PCB's) in their tissue. Results from analysis of fish oil extracted from lake trout have shown that these fish have low but detectable concentrations of PCB's in their tissue. Statistical determinations were made between mean PCB concentration and fish age, sex and geographic location of removal from Lake Superior.

## ANNOUNCEMENT

### Fish Disease Diagnostic Service

The Department of Avian Diseases of the New York State Veterinary College at Cornell University announces that a diagnostic service is now available for the diagnosis of diseases of aquatic animals. This includes finfish, shellfish and other aquatic animals. The service is available at the New York State Veterinary College on the Cornell University campus. Appointments *must* be made prior to the submission of specimens for examination by calling the office of Dr. Louis Leibovitz (phone — Area Code 607—273-8102 or 8103) or the office of the Department of Avian Diseases at the New York State Veterinary College (phone — Area Code 607—256-5449) between the hours of 8 a.m. and 5 p.m., Monday thru Friday. Specimens must be fresh, representative of the disease problem, and accompanied by an accurate case history.

## 1974 WPCF Meeting

The Water Pollution Control Federation (WPCF), in anticipation of its 47th annual conference, October 6-11, 1974, in Denver, Colorado, is now calling for technical papers for consideration for that meeting's program. The meeting is expected to draw over 7,000 persons representing every area of water pollution control. Acting through its Program Committee, the Federation invites papers for sessions on the following subjects: water reuse; automation and processes control; land treatment and disposal; energy and natural resources impacts; industrial wastes case histories; treatment plant operations research; wastewater collection systems; wastewater treatment plant design; process equipment developments; and water pollution control research.

Interested authors should request abstract submission instructions from the chairman of the Program Committee, Mr. John H. Robertson, Catalytic, Inc., 1528 Walnut Street, Philadelphia, PA. 19102. Deadlines for the submission of abstracts is January 31, 1974, for all sessions, with the exception of the research symposia. The deadline for the research symposia is April 1, 1974.

## PIJAC Funds Research

The Pet Industry Joint Advisory Council (PIJAC) is funding research in fisheries biology. Dr. John Gratzek, the Chairman of the Department of Micro-Biology, in the School of Veterinary Medicine, at the University of Georgia has been given a \$28,000 grant for the following research project.

"1. To identify types of bacteria, viruses and parasites present in imported fishes, inclusive of important pathogens to the human and domestic animal population. 2. Identification of the types of bacteria, viruses and parasites present in transport water, inclusive of fish, human and domestic animal pathogens. 3. Development of methods of control of pathogens and parasites before shipment of fishes — a precondition concept and including research of additives to water, control of micro-organisms and reduction of Biological Oxygen Demand (B.O.D.) and mortalities. 4. Development of methods of preventing spread of fish and human pathogenic micro-organisms from imported fishes."

Dr. Gratzek is a member of the American Fisheries Society and currently is a member of the Ornamental Fish Committee.

## Graduate Research Opportunity

### — Fisheries —

An opportunity for research in fisheries leading toward a graduate degree at the University of Georgia is available in cooperation with La Fundacion La Salle de Ciencias Naturales (The La Salle Foundation of Natural Sciences) a private Venezuelan foundation.

The student who participates in this program would normally take most of his or her required course work at the University of Georgia prior to working at La Fundacion's marine station on the Venezuelan coastal island of Margarita. While at the marine station (12-24 months) the student will be paid \$4000 per year plus round trip air transportation. The student will also be given free room and board. The student's research will involve some part of La Fundacion's overall program to better understand the fishery resources of Venezuela.

Applicants should have a background in fisheries or a related field. A knowledge of Spanish is highly desirable. For details contact: Richard G. Dudley, Assistant Professor Fishery Biology and Mgmt., School of Forest Resources, University of Georgia, Athens, Georgia 30602

## Oklahoma's Stocking Shad

AFS member Paul Mauck, fisheries biologist with the Oklahoma Department of Wildlife Conservation, has written an article entitled *Why Shad?* which appears in the November issue of *Outdoor Oklahoma*. He explains that although some Oklahoma lakes may be overpopulated with the larger gizzard shad, the Department is stocking the smaller threadfin shad to provide forage for the smaller members of the native predator species including young bass, crappie and catfish. Threadfins seldom grow larger than six to eight inches, and unlike the gizzard shad, which spawns once a year, threadfins may spawn twice each season. These two factors, a superior reproductive capability and a much smaller size in the adult, make the threadfin, according to the author, one of the best forage species available in Oklahoma.

Mauck states that without such shad in Oklahoma's reservoirs, even without competition from the adult gizzard shad, game fish in Oklahoma reservoirs would have to rely on other fish species for food, resulting in poor growth for the majority of fishes, and subsequent reduced numbers and pounds of bass, crappie, and catfish.

Comments on this interesting article are welcomed, provided you have read *Why Shad?* on page 13 of *Outdoor Oklahoma*, November, 1973.

## IAGFCC Passes Resolutions

The following resolutions were adopted by the International Association of Game, Fish and Conservation Commissioners at their 63rd Annual Meeting at Lake Buena Vista, Disney World, Florida, September 11, 1973.

### RESOLUTION 2

#### Fund For Endangered Wildlife

WHEREAS, H.R. 1272, introduced in the 93rd Congress January 3, 1973, required purchase of a \$3.50 Federal stamp prior to hunting, fishing, or trapping on Federal lands, such monies to be used for endangered wildlife; and

WHEREAS, the hunter and angler already carry the burden in financing fish and wildlife programs through license fees and excise taxes which benefit all wildlife including endangered species; and now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners opposes any legislation to require a Federal fee for hunting, fishing, or trapping on Federal lands.

### RESOLUTION 6

#### Land Use Planning

WHEREAS, S. 268 would establish a national land use policy and would authorize the Secretary of the Interior to make grants to assist states in the development and implementation of land use programs, and

WHEREAS, the primary responsibility and constitutional authority for management of nonfederal lands rest with state and local government, and

WHEREAS, land use decisions concerning Federal lands often have significant impact upon the total land base, and

WHEREAS, S. 268 takes into consideration planning on federal and non-federal lands and allows for participation by the general public, and

WHEREAS, priority is given to the protection of wetlands, lakes, streams, watersheds and other areas critical to fish and wildlife, now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners supports the principles of S. 268 which as introduced establishes a national land use policy and urges the development of this planning program through the states.

### RESOLUTION 7

#### Establishment of an Optimum Instead of A Maximum Yield Concept in Fisheries Management

WHEREAS, many of the nation's commercial fishery resources have undergone a long and continued biological and economic decline through overexploitation in both fresh and marine waters; and

WHEREAS, many species have been commercially harvested to the point of extinction; and

WHEREAS, this overly exploitive process has involved some of the most valuable food fishes of the oceans and coregonid species in the Great Lakes; and

WHEREAS, the common property concept has allowed free and open entry into the nation's commercial fisheries largely fishing unrestricted as to the amount of fish that could be taken; and

WHEREAS, the ownership of all fish is clearly established as a public trust in the inland waters including the Great Lakes and should be so established in coastal marine waters: now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners endorse a limited entry for commercial fishery that operates on the basis of quotas for harvestable stocks; and be it further

RESOLVED, that the Association recommends that each state and province holding jurisdiction over the fish in its waters and the federal governments in coastal waters adopt a policy to assure the development of a system of optimum yields that will guarantee maximum public benefits incorporating both sport fishing and commercial food fishing values.

### RESOLUTION 9

#### Establishing Advisory Conservation Committees and Funding for Agriculture — Wildlife Programs

WHEREAS, Title X, the Rural Environmental Conservation Program of the Agriculture and Consumer Protection Act of 1973 could benefit soil, water, air, fish, wildlife, and people significantly if appropriate administrative guidelines are developed in close consultation with knowledgeable fish, wildlife and other resource managers and if the programs are adequately funded; and

WHEREAS, Title X directs the Secretary of Agriculture to appoint an advisory board on conservation matters (1) in each state and (2) at the national level, following consultation with the Secretary of the Interior; and

WHEREAS, these state and national advisory boards are to advise the state committees established under section 8(b) of the Soil Conservation and Domestic Allotment Act and the Secretary of Agriculture, respectively, on (1) the types of conservation measures affecting the Water Bank program that should be approved (2) the purchase of perpetual easements on flood plains, shore lands and aquatic areas of the Nation, (3) providing long-term upland game cover, and (4) establishing and managing approved practices on acreages contracted for multiyear set-aside: now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners urges the Secretary of Agriculture to take immediate action to appoint or cause to be appointed the national and state advisory boards called for in the Agriculture and Consumer Protection Act of 1973; and to seek funding to carry out the programs as recommended.

### RESOLUTION 10

#### Implementation of Recommendations on Conservation and Enhancement of Fish and Wildlife in the National Water Resources Program

WHEREAS, the first annual action report of the National Coordinating Committee, consisting of representatives of the International Association of Game, Fish and Conservation Commissioners, the regional associations of fish and wildlife commissioners, the National conservation organizations, and the Bureau of Sport Fisheries and Wildlife, has been prepared; and

(Continued on page 10)

*RESOLUTION (from page 9)*

WHEREAS, this report adequately presents action needed to improve the planning, construction, and operation of federally and federally-assisted or permitted water development projects: now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners endorses the principles and recommendations of the September 1971 Action Report on Conservation and Enhancement of Fish and Wildlife in the National Water Resources Program and urges all organizations and agencies having the authority to effect them, to take such action as may be necessary to implement these recommendations. Be it further

RESOLVED, that the Association urges the National Coordinating Committee to prepare annual reports of its activities and engage in public discussion concerning these activities at appropriate national and regional meetings.

**RESOLUTION 11**

**Improved Management and Funding for Fish and Wildlife on National Forests**

WHEREAS, the U.S. Forest Service by Congressional mandate is directed to manage the national forests under the multiple use concept strongly supported by this Association; and

WHEREAS, budgets of the U.S. Forest Service continue to favor timber production over other functions and yields of products and services; and

WHEREAS, forests managed predominantly or solely for timber production can result in monotypic forest stands, poorly planned and constructed roads, degradation of water quality, loss of esthetic landscape values, and destruction of valuable fish and wildlife habitat; now therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners urges (1) the U.S. Forest Service to do a better job of protecting watersheds and their associated multiple values in timber harvest areas, and (2) the Congress and the Administration to provide adequate funds to employ more specialists, besides foresters, at the field level to insure better coordination for maintaining, enhancing and, where necessary, restoring watershed, fish, wildlife and recreation values.

**RESOLUTION 14**

**Use of Aircraft by Conservation Agencies**

WHEREAS, the Federal Aviation Agency (FAA) has recently refused to reissue to the States of Nevada and California, Departments of Fish and Game, waiver of certain regulations on low flying; and

WHEREAS, we have been advised that the FAA intends to deny all waiver requests from state and Federal agencies in the future; and

WHEREAS, low flying is vital to the success of many fish and wildlife projects, including law enforcement missions; and

WHEREAS, conservation flying has been conducted over many years in accordance with such waivers in a safe manner, without hazard to the general public; now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners petitions the Administrators, FAA, for relief from this act of refusal, either by reissuance of said waivers, or by other form of exemption or regulation as is deemed necessary, in order that the states may carry on with their normal work routines.

**RESOLUTION 23**

**Federal Water Project Recreation Act**

WHEREAS, no action has been taken regarding Resolutions pertaining to modification of the Federal Water Project Recreation Act submitted in the 1971 and 1972 annual meetings of the International Association of Game, Fish and Conservation Commissioners, and

WHEREAS, the Act (P.L. 89-72) requires that full consideration be given to recreation enhancement as a purpose of federal water projects, and

WHEREAS, the Act further provides that a nonfederal public body must execute an agreement before construction to administer land and water areas for recreation enhancement and to repay all costs of operation,

maintenance and replacement of facilities plus at least one-half of all construction costs and project modifications, including water for a recreation pool and evaporative loss, which are specifically allocated to recreational uses, and

WHEREAS, fiscal limitations would prevent adequate administration of the areas, and impose inequitable cost-sharing responsibilities on state and local political subdivisions who rarely have adequate funds to meet cost-sharing obligations; now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners reaffirms its recommendation that the Federal Water Project Recreation Act (P.L. 89-72) be repealed or amended to make costs of facilities nonreimbursable for anadromous fish, migratory waterfowl, endangered species and estuarine resources, and also for water control and storage and control facilities; eliminate the \$28 million limit on land purchased for waterfowl as part of water projects; and insure that, (a) separable costs of basic access, sanitary, and safety facilities would be Federal costs; (b) fish and wildlife losses will be satisfactorily compensated before enhancement features are cost-shared; (c) the expansion of fish populations naturally occurring in impounded waters is in no way considered to be enhancement; and (d) interest requirement would be waived on cost-share repayments.

**RESOLUTION 25**

**Administering Pittman-Robertson and Dingell-Johnson Funds**

WHEREAS, it is proposed in the draft National Plan for Outdoor Recreation which will be submitted to the President of the United States for approval to shift Pittman-Robertson and Dingell-Johnson programs out of the Bureau of Sport Fisheries and Wildlife to the Bureau of Outdoor Recreation; and

WHEREAS, the Bureau of Sport Fisheries and Wildlife has administered an efficient program resulting in substantial enhancement of fish and wildlife within the states; and

WHEREAS, funds currently administered by the Bureau of Outdoor Recreation are not necessarily distributed to the states through the agency responsible for fish and wildlife, thereby creating a potential for diversion of P-R or D-J funds from fish and wildlife programs, now, therefore, be it

RESOLVED, that the International Association of Game, Fish and Conservation Commissioners unalterably opposes the transferring of the Pittman-Robertson and Dingell-Johnson programs to any other agency or block grant program.

**RESOLUTION 27**

**Environmental Quality Standards**

WHEREAS, recent statements by the President of the United States and Mr. John A. Love, Director of the White House energy policy office, suggest a relaxation of environmental quality standards in the immediate future to enhance the development of oil and coal reserves and the utilization of these energy resources, and

WHEREAS, the application of stringent standards may be necessary to insure the maintenance of adequate wildlife habitats in the face of energy resources developments, and

WHEREAS, environmental impact statements and research efforts directed toward alleviating environmental degradation must precede energy development and associated environment and wildlife habitat modification rather than occurring simultaneously with such developments as now suggested, and now, therefore be it

RESOLVED that the International Association of Game, Fish and Conservation Commissioners strongly opposes relaxation or lowering of any environmental quality rule or standard which results in serious and permanent harm to wildlife habitats, and requests that adequate appraisals and evaluation, including thorough environmental impact statements and intensified research, precede all energy reserve developments or relaxation of any environmental quality standards related to these developments which may have an adverse effect on the Nation's wildlife resources.

1	2	3	4	5	6	7	8	A	B	C	E	F	I	P	S	T
Habitat	Range - FW			Range - Marine				Category								
A.	Scientific name			Author, date				Family								
B.	Common name			Other names												
C.	Importance (check all appropriate boxes): Aquarium fish A ; Salt and forage fish B ; Aquaculture C ; Endangered fish E ; Food fish F ; Industrial fish (pet food, fertilizer, fish meal; jewelry, etc.) I ; Poisonous and venomous fish P ; Sport fish S ; Textbook, popular press fish T ; Other:															
D.	Habitat: Marine 1 ; Freshwater 2 ; Estuarine 3 ; Comment:															
E.	Range (geographic, ecological, bathymetric):															
F.	Source of information:															
G.	Reference to illustration:															
Date: _____ Submitted by: _____																

Committee on Names of Fishes  
AFS-ASH  
Return to Dr. C. Richard Robins, School of Marine and Atmospheric Science, University of Miami, 10 Rickenbacker Causeway, Miami, Florida 33149

## Fishery Flashes

Daniel A. Poole, President of the Wildlife Management Institute, has been elected President of the Natural Resources Council of America (NRCA). William Towell, Executive Vice President of the American Forestry Association and Fred Evenden, Executive Director of the Wildlife Society were elected as Vice President and Treasurer, respectively. NRCA is a coordinating group of 42 major citizen conservation organizations.

\*\*\*\*\*

AFS's Richard A. Wade was recently elected to fill the vacant office of Secretary of the Renewable Natural Resources Foundation in Washington, D.C. Wade also serves RNRFF as a member of the Board of Directors and the Executive Committee. RNRFF is a federation of eleven professional societies whose members — scientists, educators, and practitioners — are directly concerned with the advancement of research, education, scientific practice, and policy formulation for the conservation and replenishment of the earth's renewable natural resources. RNRFF's chairman is Mr. Hardy Glascock, Executive Vice-President of the Society of American Foresters, and its Vice-Chairman is Dr. Fred Evenden, Executive Director of the Wildlife Society. Dr. A. F. Spilhaus, Jr. serves as RNRFF Treasurer.

\*\*\*\*\*

The National Marine Fisheries Service of NOAA announces that the position of Assistant to the Director for Marine Game Fish is open. The individual who qualifies for this position will be classified as a Fishery Administrator at the GS 15 or 16 level (\$28,263 - 36,000), and will be charged with the overall Service-wide responsibility for identification of the need for, and the planning, developing, and coordinating of NMFS activities related to a comprehensive marine game fish program. Submit SF-171 to Jack W. Gehringer, Deputy Director, National Marine Fisheries Service, Washington, D. C. 20235; telephone 202/343-4007.

## Names of Fishes

The Committee on Names of Fishes solicits information on non-North American Fishes (i.e. those not included in Special Publication 6) whose importance is such that it is desirable to include them in its list of common and scientific names of popular and important non-North American Fishes. All information provided will be reviewed by the Committee in its preparation of the list. The information that the committee desires is outlined on the form reproduced below. Copies of this form are available from Dr. C. Richard Robins, Committee Chairman.

More information on this checklist is provided in the reports of the chairman, TAFS, volume 102, p. 234-235, 1973.

## New Members

September, 1973

New Members	Sponsor
1. Alaska Dept. of Fish & Game Juneau, AK	Office
2. *Gregory M. Capelli Madison, WI	Office
3. J. W. Lovering Owen Sound, Ont., Canada	J. M. Halpenny
4. W. D. Mansell Wingham, Ont., Canada	J. M. Halpenny
5. *Roger Allen Rulifson Raleigh, NC	G. B. Pardue
6. Weldon Leigh Burrows St. Albans, WV	Office
7. *Charles "J." Mulford Ames, IA	K. D. Carlander & B. W. Menzel
8. *Jerry LaVerne Gibson Ames, IA	K. D. Carlander
9. *Leslie Emerson Holland Framingham, MA	J. E. Johnson
10. Ernest Robert Holmstrom, Jr. Morrisville, PA	D. C. Brazo
11. *Terrance Kluz Stevens Point, WI	Office
12. Chip Soetjip E. Lansing, MI	E. W. Roelofs
13. Phillip G. Chapman Mt. Dora, FL	Office
14. *Robert Phillip Potter Palermo, ME	P. Bourque
15. Joseph E. Kraai Canyon, TX	W. C. Provine
16. *Pamela Jean Gibbs Bryan, TX	R. D. Caldwell
17. William D. Madden Waimanalo, HI	J. R. Sylvester
18. William Harvey Robbins Sault Ste. Marie, Ont., Canada	H. R. MacCrimmon
19. *Mary F. Vanderlaan Muskegon, MI	C. Harris
* Student Member	

### New Members

20. *John Albro Easterbrooks Orono, ME
21. *Raymond D. Germany Minden, LA
22. *Lannie R. Miller Manhattan, KS
23. *Robert Naiman Tempe, AZ
24. Professor Hong Jun Yang Taegu, Korea
25. Raymond Edward Zewe Independence, KS
26. *Raymond C. Sherman Ames, IA
27. *Richard Lee Joens Ames, IA
28. *Stephen R. Standerford Lafayette, IN
29. *Dale L. Theiling Charleston, SC
30. Robert E. Eron St. Petersburg, FL
31. *Arnold Carsten Jensen Moscow, ID
32. A. Christian Johnson Boynton Beach, FL
33. *Anthony Wayne Mullis Burlington, NC
34. Andy L. Price Plant City, FL
35. *Robert W. Burns Columbia, SC
36. *Donald K. Gartman Columbus, OH
37. Dr. Loren D. Jensen Baltimore, MD
38. Dr. Louis Leibovitz Ithaca, NY
39. William Arthur Spoor Duluth, MN
40. James E. Byars Lake Charles, LA
41. *Charles W. Conley, III Starkville, MS

### Sponsor

R. W. Hatch
R. L. Noble
H. E. Klaassen
Office
Office
J. M. Ray
K. D. Carlander
K. D. Carlander
J. Hamelink
H. A. Loyacano
J. W. Woods
A. C. Jensen
Office
R. G. Dudley
Office
J. M. Dean
R. A. Tubb
A. R. Gaufin
G. Rumsey
Office
D. C. Carver
R. E. Reagan, Jr.

### New Members

42. David L. Cornwall Grayling, MI	W. G. Yoder
43. *Paul Luther Henriksen St. Olaf, IA	K. D. Carlander
44. D. Kenneth M. Hudson Montgomery, AL	B. J. Grantham
45. Marilyn C. Gillespie Baton Rouge, LA	W. H. Herke
46. Francis Joseph Howard Carpinteria, CA	Office
47. *Ronald E. Kolczak W. Lafayette, IN	J. Hamelink
48. P.E.I. Environmental Control Comm. Charlottetown, P.E.I., Canada	Comm. Office
49. *Victoria Brook Van Meter Boca Raton, FL	W. R. Courtenay, Jr.
50. *Michael Lee White Bryan, TX	R. L. Noble
51. *Robert Ross Ciandaniol College Station, TX	M. E. Chittenden, Jr.
52. *Jesse Alan Chappell Clemson, SC	H. A. Loyacano
53. Arthur Flynn Cleveland, OH	Office
54. Peter Michael Hine, Ph.D. Wellington, New Zealand	Office
55. *Leon John Olson Racine, WI	J. D. Anthony

### October, 1973

56. *Ronald M. Altaras College Station, TX	R. L. Noble
57. *Allen Edward Bingham Columbus, OH	R. A. Tubb
58. *Marlin Clark Fisher Muncie, IN	T. S. McComish
59. *Brooks A. Pangburn Corvallis, OR	Office
60. *Robert L. Weight Macomb, IL	L. A. Jahn
61. Richard H. Wheeler Washington, D.C.	Office

- |   |                     |  |                     |   |
|---|---------------------|--|---------------------|---|
| 62. *Thomas E. Bigford<br>Concord, MA                   | E. W. Roelofs       | 111. *Ted William Storck<br>Columbis, OH             | W. T. Momot         | 2. U.S. Army Engineer District, St. Louis<br>Corps of Engineers - Dist. Library<br>210 North 12th Street<br>St. Louis, Missouri 63101                             |
| 63. *William Waller Taylor<br>Morgantown, WV            | R. Schoumacher      | 112. *Julien Holt Williamson<br>Bryan, TX            | R. D. Caldwell      | 3. Direction des Peches Maritimes<br>Ministere Industrie et Commerce<br>Complexe Scientifique C 265<br>555 Boul Henri IV<br>Quebec 12, P.Q., Canada               |
| 64. *Richard Lynn Edmonds<br>Muncie, IN                 | T. S. McComish      | 113. Eddie Robert Baldocchi<br>Croton-on-Hudson, NY  | C. A. Barans        | 4. Todai-Suisan-Jikkenjo<br>Maisaka-Cho, Hamana-Gun<br>Shizuoka-Ken (MZ) Japan  |
| 65. *Howard Hunt Curran, Jr.<br>Frankfort, IN           | J. L. Hamelink      | 114. *Dennis Lavis<br>Lansing, MI                    | E. W. Roelofs       | 5. Provincial Fisheries<br>P. O. HARTBEEESPOORT . . . Tvl.<br>South Africa  |
| 66. *Lloyd John Fenwick<br>Corvallis, OR                | H. F. Horton        | 115. Ralph P. Malsam<br>Elkins, WV                   | G. E. Hanson        | 6. Dept. Mines, Resources & Environmental<br>Mgt. - Library<br>1006 Norquay Bldg.<br>Winnipeg, Manitoba, Canada R3C OP8   |
| 67. *Christopher Clark Ellis<br>Raleigh, NC             | G. B. Pardue        | 116. *Remy John Pattyn<br>E. Lansing, MI             | E. W. Roelofs       | 7. Duke Power Company<br>Att: Mrs. Peggy B. Lambert, Librn.<br>Power Building, Box 2178<br>Charlotte, No. Car. 28201  |
| 68. *Samuel R. Casne<br>Seattle, WA                     | Q. J. Stober        | 117. *Edward P. Raffel<br>Aquebogue, Long Island, NY | G. W. Bane          | 8. Texas Instruments, Inc.<br>D. McKenzie<br>P. O. Box 237<br>Buchanan, New York 10511  |
| 69. *Jimmy Ray Coolidge<br>Ft. Worth, TX                | C. E. Murphy        | 118. Newcomb Cleveland<br>Tulsa, OK                  | Office              | 9. Antiquariaat Junk<br>Dr. R. Schierenberg & Sons N. V.<br>Walderstraat 10, Postbos 5<br>LOCHEM - Holland  |
| 70. *Michael Alan Edwards<br>College Station, TX        | R. L. Noble         | 119. Phillip R. Kehrler<br>Lawrence, IN              | T. S. McComish      | 10. Ont. Ministry of Natural Resources<br>P. O. Box 460<br>Chapleau, Ont., Canada   |
| 71. Bradford M. Endicott<br>Boston, MA                  | Office              | 120. Don Lyle Longacre<br>Caledonia, NY              | Office              | 11. U.S. Peace Corps<br>c/o American Embassy<br>Box 2000<br>APO New York 09205  |
| 72. *Kenneth J. Froehlich<br>Ft. Worth, TX              | C. E. Murphy        | 121. *Lonnie Lowe Lowry<br>College Station, TX       | P. C. Hammerschmidt | 12. CON ED CO OF NY - Acct. #H8454<br>c/o George T. Cowherd, Jr., Dir.<br>4 Irving Place, Rm. 1373-S<br>New York, NY 10003  |
| 73. *Terrence L. Gruninger<br>Ft. Worth, TX             | C. E. Murphy        | 122. Paul David Maugle<br>Colombia, Sudamerica       | Office              | 13. Library - The Fisheries Research & Develop.<br>Agency<br>Namhang-Dong, Youngdo-Ku<br>Pusan, Korea   |
| 74. *Max J. Hancock<br>Ft. Lauderdale, FL               | Office              | 123. *La Verne Sultz<br>Eureka, CA                   | J. W. DeWitt        | 14. Milwaukee Public Museum<br>Attn: Librarian<br>827 North 7th St.<br>Milwaukee, Wisc. 53233   |
| 75. *Jay A. Pruett<br>Arlington, TX                     | C. E. Murphy        | 124. *Louis Gorodetzter<br>Arcata, CA                | G. H. Allen         | 15. School of Nourishment & Fishing<br>Catholic University of Valparaiso<br>Avenida Brasil 2950, Casilla 4059<br>Valparaiso, Chile<br>c/o Dr. Sergio Kaiser Lillo |
| 76. *James A. Sturgess<br>Walnut Creek, CA              | P. B. Moyle         | 125. Max Thomas Henschen<br>Brownstown, IN           | G. D. Doxtater      | 16. Alaska Dept. Fish & Game<br>Div. Fisheries Rehabilitation,<br>Enhancement & Develop. (F.R.E.D.)<br>333 Raspberry Rd.<br>Anchorage, Alaska 99502               |
| 77. *Michael J. Chaffee<br>Burlington, MI               | C. R. Liston        | 126. Glen A. Rasmussen<br>Aurora, IL                 | C. L. Armour        | 17. Library Order Department<br>Southwest Research Institute<br>8500 Culebra Road<br>San Antonio, Texas 78284   |
| 78. *Neal C. Evans<br>Lemoore, CA                       | R. E. Brown, Jr.    | 127. *John W. Wildey<br>Eureka, CA                   | G. H. Allen         | 18. Dept. Marine Sciences Library<br>College of Agric. & Mech. Arts<br>Mayaguez, Puerto Rico 00708  |
| 79. Fish & Wildlife Branch<br>Victoria, B.C., Canada    | R. M. Bailey        | 128. *Lee William Eberley<br>St. Cloud, MN           | A. J. Hopwood       |   |
| 80. *Richard A. Hansen<br>Blacksburg, VA                | R. T. Lackey        | 129. *William Sherwood Fee<br>Tucson, AZ             | C. D. Ziebell       |   |
| 81. *Richard Roland Johnson<br>Eureka, CA               | G. H. Allen         | 130. *Spencer C. Fuller<br>Ft. Collins, CO           | C. A. Carlson       |   |
| 82. *Robert John MacFarlane<br>St. Thomas, Ont., Canada | R. W. McCauley      | 131. *Michael C. Martin<br>College Station, TX       | R. L. Noble         |   |
| 83. *Andrew W. Morton, Jr.<br>Paradise, CA              | G. H. Allen         | 132. *Paul Edward Mongillo<br>Logan, UT              | W. T. Helm          |   |
| 84. *Penny O'Keefe<br>College Station, TX               | R. L. Noble         | 133. *David Edward Nixon<br>Starville, MS            | R. E. Reagan, Jr.   |   |
| 85. *Timothy O'Keefe<br>College Station, TX             | R. L. Noble         | 134. *Wallace W. Gee<br>Orlando, FL                  | Office              |   |
| 86. *Thomas Earl Oldham<br>Blacksburg, VA               | R. T. Lackey        | 135. *James W. Hayes<br>College Station, TX          | R. L. Noble         |   |
| 87. *Bruce Ernest Pollard<br>Ypsilanti, MI              | K. F. Lagler        | 136. R. J. Miller<br>St. John's, Canada              | Office              |   |
| 88. George B. Putnam<br>Philomath, OR                   | H. F. Horton        | 137. *Richard K. Edel<br>Kingston, RI                | S. B. Saila         |   |
| 89. *Sam Quattrocchi<br>Arcata, CA                      | G. H. Allen         | 138. Donley M. Hill<br>Norris, TN                    | Office              |   |
| 90. *Andrew Philip Rivinus<br>Corvallis, OR             | H. F. Horton        | 139. Stephen E. Muth<br>Pt. Pleasant, WV             | D. W. Robinson      |   |
| 91. *John Bertram Welch<br>La Porte, TX                 | P. C. Hammerschmidt | 140. *John Alan Yost<br>Garden City, KS              | H. E. Klaassen      |   |
| 92. *Terry Benton Willis<br>Muncie, IN                  | T. S. McComish      | 141. *Mughtar Ahmad<br>Nagasaki, Japan               | Office              |   |
| 93. *Linda M. Roberts<br>Seattle, WA                    | Office              | 142. *Reginald Mark Harrell<br>Moncks Corner, SC     | H. Loyacano         |   |
| 94. *Nancy Marie Rosentreter<br>Vancouver, WA           | H. F. Horton        | 143. *David Lee Langlois<br>Kankokee, IL             | C. A. Carlson       |   |
| 95. *Ronny Reagan Peery<br>White Oak, TX                | R. D. Caldwell      | 144. *Thomas J. Occhiogrosso<br>Tuxedo, NY           | G. J. Lauer         |   |
| 96. *James R. Plautz<br>Lansing, MI                     | E. W. Roelofs       | 145. *Gerald V. Poje<br>Tuxedo, NY                   | G. J. Lauer         |   |
| 97. *Bruce Richard Eddy<br>Sun Valley, CA               | M. J. Whalls        | 146. *John Wesley Stahl<br>W. Lafayette, IN          | J. Hamelink         |   |
| 98. Thomas G. Lopp<br>Washington, D.C.                  | Office              | 147. Leighton R. Taylor, Jr.<br>Honolulu, HI         | Office              |   |
| 99. *Jelaine L. Olliffe<br>Las Vegas, NV                | Office              | 148. *Gary L. Armstrong<br>Centralia, KS             | H. E. Klaassen      |   |
| 100. *Ronald P. Richardson<br>Norfolk, VA               | R. T. Lackey        | 149. Nancy Anne Naplin<br>Clifton, NJ                | R. N. Ruebsamer     |   |
| 101. *Gordon Elmer Bartelt<br>Houghton, MI              | P. M. Kotila        | 150. *Robert George Stockholm<br>Long Pond, PA       | B. L. Haase         |   |
| 102. *Brad Allan Dickey<br>Macomb, IL                   | L. A. Jahn          |  |                     |   |
| 103. H. T. Holland<br>Vicksburg, MS                     | Office              |  |                     |   |
| 104. *Fredrick V. Jones<br>Denton, TX                   | W. D. Pearson       |  |                     |   |
| 105. *Steven James Koplin<br>College Station, TX        | R. L. Noble         |  |                     |   |
| 106. Donald L. Livingston<br>Columbia, MO               | B. F. Grant         |  |                     |   |
| 107. *Mary Elizabeth McAfee<br>Greeley, CO              | S. A. Flickinger    |  |                     |   |
| 108. Charles H. Meacham<br>Anchorage, AK                | D. B. Thurston      |  |                     |   |
| 109. Alan C. Paulson<br>Kodiak, AK                      | Office              |  |                     |   |
| 110. Dr. H. Rothenbacher<br>University Park, PA         | R. L. Butler        |  |                     |   |

**October, 1973**

**New Libraries**

**September, 1973**

1. SRIA. De Industria Y Comercio  
Depto de Bibliotecas y Publicaciones  
Av. Cuauhtemoc y Dr. Liceaga  
Mexico 7, D. F./MEXICO

19. Missouri Western College  
Library (Wingersma)  
4525 Downs Drive  
St. Joseph, Missouri 64507
20. National Audubon Society  
950 Third Avenue  
New York, New York 10022
21. Autorite pour l'Amenagement  
de la Vallee du Bandama  
Service de Documentation  
PO Box 20.887  
Abidjan-Ivory Coast, West Africa
22. Marine Resources Laboratory  
Calif. Department of Fish & Game  
619 Second Street  
Eureka, California 95501
23. Queen University  
Science Library  
Belfast BT9 3EQ  
N. Ireland
24. Marine Fisheries Res. Dept.  
Att: Miss S. Namazie  
Southeast Asian Fish. Development  
Ctr., Changi Point  
Singapore 17. Rep. of Singapore
25. Bibliotheque—Faune  
Min. Tourisme, Chasse Et Pêche  
Edifice de la Faune  
Orsainville, Que., Canada
26. EPA-TSD-CBIB  
Bldg. 402 ARC-EAST  
Beltsville, MD 20705