

American Institute of Fishery Research Biologists

... BRIEFS ...

VOLUME 1, NO. 1

(CANADA, UNITED STATES, AND OTHER COUNTRIES)

FEBRUARY 1972

THE PRESIDENT SPEAKS . . .

To stimulate communication among members and further the well-being of the Institute, the Board of Control agreed that a newsletter be developed. However, any such document should bear as little resemblance as possible to newsletters that chiefly report 'the comings and goings of important people and other trivial'. It was also agreed that an Editor would be sought from within the Institute. Emphasis should go to dignity of presentation and substance. To be effective, the newsletter should reflect the posture and vitality of the organization it represents, and provide all the necessary avenues for expression appropriate to the organization. In this first issue, the Board has attempted to meet these objectives but is soliciting your comments and ideas.

— Roy Hamilton

THE DISTRICTS IN ACTION

1. *South Central Great Lakes District* under Stan Smith is sponsoring symposia on timely topics. A recent one, **LAMPREY CONTROL—Fact or Fantasy**, attracted 55 persons.

ABSTRACT:

Despite biological reactions such as enhanced growth rates and fecundity, changed proportions of females and longer maturity of sea lampreys, and the control problems stemming in part from concerns over pesticides, many positive benefits from sea lamprey control are evident.

Fisheries based on hatchery salmonids have developed in lakes where lampricides were used. In spite of high lamprey scarring and mortalities, lake trout abundance maintained by hatchery raised fish is about equal to the pre-lamprey period in Lakes Superior and Michigan. Whitefish have made a good recovery in Lakes Michigan and Huron.

The Great Lakes Fishery Commission is initiating more frequent treatment of major lamprey streams, planning barrier dams and studying biological controls.

2. *The Northwest Washington District* under Dick Myhre will complete by April, 1972 updating a comprehensive, statistical study of *Working Conditions* in the profession. The report will be distributed to all members of the Institute after approval by the Board of Control.

3. *The Florida District* (Ed Iverson, Director) has been studying the role, content and mechanics of producing and distributing "white papers" in the name of the Institute, on such topics as Marine Pollution and Introduction of Exotic Species and other subjects.

4. *The Alaska District*—Bill Meehan, Director, reports that the proceedings of a 1968 Symposium on the Effects of Logging on the Habitat of Salmon sponsored by their District continues to be in great demand to require reprinting. Another symposium on some timely topic is under consideration.

-- WANT ADS --

NAME?

The name "briefs" is proposed as being indicative of what the character of the newsletter should be—a concise compendium of brief and topical items.

Other titles might be: *AD CAPUT* or *EXCELLERE SUM*, being respectively symbolic of the prime purposes of the Institute, namely, to recognize *Achievement* and *Excellence*. (Latin scholars please comment.)

IDEAS?

Ideas on the NAME, FORMAT, CONTENT and FREQUENCY of the newsletter must be forthcoming from the 600 professionals to whom and for whom it is to be circulated. Please return the enclosed questionnaire.

— TUUM EST —

EDITOR?

There are many eminently qualified members active or retired, to fill the position of Editor.

Please 1. volunteer

or 2. request further information

or 3. name some likely prospect,

Use the enclosed addressed envelope for your reply.

NEW MEMBERS?

All Members and Fellows of the Institute are obligated to nominate qualified persons for possible membership. Individual nominators or district Membership Chairmen should make an effort to secure other nominations for their nominees from other Members and Fellows. However, do not delay forwarding *your* nomination in the enclosed envelope. If required, facsimiles of the enclosed Nomination Form can be made.

(Please Tear Off And Return)

This Newsletter is an initial effort to further communication within the Institute. The obvious shortcomings should generate many comments and suggestions from the membership.

1. The Newsletter should be published: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 times per annum.

2. I suggest for the name of the Newsletter.

3. I propose for the Editor.

4. Is your diploma properly engraved Yes ☐ No ☐ ? Advise of any defect.

5. How many of your colleagues in your area might be interested in joining the Institute The list of members by States and Provinces will aid in making your estimate.

6. Please send me more Nomination Forms.

Addenda and corrigenda to the Directory of Members will be published in the Newsletter in a form that will permit inclusion in the printed Directory.

Comments or not, the *prompt* return of this questionnaire will provide a test of the adequacy and correctness of your address.

F. HEWARD BELL
404 - 12th Place North
Edmonds, Washington 98020

REWARD OF EXCELLENCE:

William W. Fox, graduate student, University of Miami, wins the 1970 W. F. Thompson Award for the outstanding student publication of the year, "An Exponential Surplus-Yield Model for Optimizing Exploited Fish Populations." Transactions American Fisheries Society, Vol. 99, No. 1, January 1970, pp. 80-88.

The AIFRB, dedicated to excellence in the profession, presents the Award of up to \$250, usually annually, in the name of the prime founder of the Institute, the late William F. Thompson.

NOTICE:

Since applications for Membership will henceforth be considered only at meetings of the Board of Control, all pending Applicants in the interim will receive all newsletters and other communications, and attend District meetings as *invited* guests of the respective Director.

PROSPECTIVE EDITORS TAKE NOTE!

Members of the Board of Control, as well as individual members will be obliged to submit concise, well organized, newsworthy items to the Editor. The Editor will *select and further organize* such material each 3 months into a succinct, timely document which would be transmitted to the Secretary for prompt production and distribution.

If desired the Editor could agree to serve for say 3 years.

The Editor could expect contributions *each* issue under the headings of:

1. *The President Speaks* — a brief commentary on some significant matter of general interest to the members.
2. *The Members Speak* — Proposals, caterwauls and 'the like' could be "let off", in order to satisfy the 'democratic process'.
3. *Fiscal Notes*: — from the Secretary-Treasurer.
4. *Membership Memoranda* — Applicants; New Members; Promotions.
5. *District in Action* — concise accounts of some activity from each District.
6. *Features* — From time to time, some timely topic of wide interest could be discussed in 500 to 1000 words.
7. *Abstracts* — Precise on significant symposia or reports given at District Meetings might be included.
8. *Editor's Corner* — Messages from the Editor.
9. *Notices*.
10. *Etcetera, etcetera, etcetera*.

American Institute of Fishery Research Biologists

404 - 12th PLACE NORTH
EDMONDS, WASHINGTON 98020



JOHN W REINTJES
NAT MAR FISH SERV
BEAUFORT, NC 28516

American Institute of Fishery Research Biologists

... BRIEFS ...

VOLUME 1, NO. 2

(CANADA, UNITED STATES, AND OTHER COUNTRIES)

JUNE 1972

THE PRESIDENT SPEAKS . . .

The initial response to the newsletter has been most gratifying. The comments warrant continuing the development of a dignified communication designed to reflect the posture and vitality of the Institute. Briefs will also aid in broadening the base of our membership, a task to which all of us should now address ourselves.

— J. A. R. HAMILTON

THE 'VP' SAYS . . .

The Vice President is in charge of members not affiliated with any district. Such Members-at-Large should use Briefs to express their views regarding our profession and on how the Institute can fulfill its Primary Role; —

"the professional development and performance of its members and the recognition of their competence and achievement."

Send your views to me or directly to the Editor.

— TED S. Y. KOO

MEMBERSHIP

NEW MEMBERS

In carrying out the Primary Role of the Institute, the recognition of achievement and of excellence, the Board of Control at its May meeting tendered membership to 70 persons who had received the required number of nominations from their colleagues.

There were sixteen (16) ASSOCIATES:—possessing a baccalaureate degree; two years experience; and with *professional promise*.

Fifty-one (51) qualified as MEMBERS:—28 years old; 7 years experience; and with publications which are a *significant contribution* to scientific knowledge.

Three (3) qualified as FELLOWS:—35 years old; 15 years experience; and of *distinguished achievement*.

Two additional scientists have since been nominated and elected as FELLOWS by the Board.

NOTICE TO ALL MEMBERS

It is the continuing responsibility of all members to nominate those in their area they believe would qualify.

Send in Nominations *promptly* so that they may be considered at the Annual Meeting September 14.

If you require more Nomination Forms write the Secretary-Treasurer.

About 110 new members are expected this year, about 3 times the normal annual increment, to bring the roster to over 700.

UNITED STATES CIVIL SERVICE RECOGNITION

Recognition is being sought for the FELLOW rank by the United States Civil Service similar to that accorded FELLOWSHIP in the American Academy of Microbiologists.

THE NEWLY ELECTED FELLOWS

— EXCELLERE SUM —

Douglas George Chapman

Dean, College of Fisheries, University of Washington, Seattle.

Adviser to international fishery commissions; authority on whale populations; author of many fundamental studies in biometrics and population dynamics; Teacher, Fellow, AAAS and IMS, Director TIE and member AFS and Ecol. Soc.

Dominic Digiusti

Chairman Department of Biology, Wayne State University, Detroit.

Helminth and protozoa research esp. haematozoa of poikilothermic vertebrates; many publications in parasitology 1939-1972. Teacher. Fellow AAAS and New York Academy of Sciences; President, American Microscopical Society and Michigan Entomological Society.

Reeve Maclaren Bailey

Director, Museum of Zoology, University of Michigan, Ann Arbor.

Classification of fish; many publications in taxonomy, 1936 to 1972, particularly N.Am. fresh water; Teacher. AAAS; ECOL. SOC.; Am. Soc. Ich. Herp. (past Pres.) ASLO, Evol. Soc. SSZ, AIBS, AFS (2nd V.P.).

Donald Charles Scott

Chairman, Div. Biol. Sciences, University of Georgia, Athens.

Professor Zoology: Coordinator 6 Depts.—135 faculty; Teacher. AAAS; ASLO; AFS; ASZ; ASIFT; ASB; Trustee Georgia Conservancy Comm.; Georgia Natural Areas Council 1966-72, (Chairman 1969-1972).

Clarence Labett Smith

American Museum of Natural History, New York.

Ichthyological research; basic studies on systematics; hermaphroditism; and ecology of coral reef fishes. Many publications 1950 to 1972; Teacher; Fellow, Explorers' Club; member, AFS. Ecol. Soc., Am. Soc. Ich. Herp., Am. Soc. Limnol.-Oceanog.

ADVANCEMENTS IN RANK

The Board of Control has elevated the following Members to *FELLOW* on the basis of their performance and development since their joining the Institute in the year indicated.

Reynold Allen Fredin (58)

George Herbert Lawler (64)

Cedric Eugene Lindsay (59)

Paul N. Sund (63)

Robert D. Ting (70)

Henry Otto Wendler (60)

Charles Edward Woelke (59)

Records of several others were not received in time to be considered at the May meeting.

DISTRICTS IN ACTION

ALASKA

Director Rupert E. Andrews reports discussions on the forthcoming "Law of the Sea Conference" and on the "Impact on the Fisheries of the Native Land Settlement" and other timely topics. The second edition of the "Symposium on the Effects of Logging" will be available soon.

SOUTHERN CALIFORNIA

Under Izadore Barrett, Director, this District has recommended to the National Marine Fisheries Service that population studies on porpoises captured in the tuna fishery be accelerated.

FLORIDA

Under Dr. Edwin S. Iverson this District has produced several 'white' papers on important questions. An excellent one recently approved by the Board "Exotic Aquatic Organisms in Florida" by W. R. Courtenay and C. R. Robins is abstracted in these BRIEFS.

OREGON - SW WASHINGTON

Robert L. Borovicka, Director, reports the holding of a meeting at Salem where the objectives of the Institute were discussed at the Office of the Governor of Oregon.

NORTHWEST WASHINGTON

At the request of the District, under Richard J. Myhre, Director, the Board of Control approved a program to interest Canada and the United States in the formation of a North Pacific counterpart of the International Council for the Exploration of the Sea.

Dr. Richard Van Cleve as Chairman is organizing a Ways and Means Committee of prominent scientists in the two countries to further the program.

A District report on "Working Conditions of Fishery Biologists" can be borrowed from Robert R. French, Committee Chairman, 2725 Montlake Blvd. E., Seattle WA 98102. The September issue of BRIEFS will contain a resume.

The annual joint dinner meeting with the Oregon - SW-Wash. District was held at Chehalis in May with 60 present. The program included a symposium on "Ecology and Economy — A Northwest Planning Concept."

S. CENTRAL - GREAT LAKES

This District under Dr. Stanford H. Smith has completed a series of well attended symposia on topics of current interest. They have stimulated many to apply for membership in the Institute.

GENERAL MEETING OF MEMBERSHIP

While a general meeting may be called by the Board, it has repeatedly agreed in the past that it would not materially advance the purposes of the Institute. However, this year *all Institute Members* attending the American Fisheries Society meeting at Hotsprings, Arkansas, will meet Tuesday evening, September 12, for a hospitality hour and a short program.

This will be an added inducement to attend the A.F.S. meeting this year!

DIRECTORY OF MEMBERS

The following were omitted from the list of members. (They are in the list by States).

Everet C. Jones

Box 3830

Honolulu, HI 96812

Frederick C. June

Box 698

Pierre, SD 57501

Dr. Edwin B. Joseph

Box 33

Gloucester Pt., VA 23062

Charles O. Junge

Route 2, Box 31A

Clackamas, OR 97015

Tom Jow

411 Burgess Dr.

Menlo Park, CA 94125

Add prefix Dr. to Messrs. Caillouet, Fukuhara, Hassler (T. J.), Rothschild, Straty, Sylvester.

Send in your Corrections.

ANNOUNCEMENTS

Dr. John E. Halver, Fellow AIFRB, is North American representative on the Committee on Nutrition and Production of Fish of the International Union of Nutritional Sciences. He requests members forward to him suggestions on priorities of research in nutrition and production of fish so that he might use them in Committee deliberations on September 10, 1972 at Mexico City.

\$ \$ FISCAL MATTERS \$ \$

A financial policy of austere independence is being pursued. Unlike all similar societies Dues have not changed in 16 years despite the present more active role of the Institute.

We are also attempting to be reasonably independent of employers for clerical aid. This can be done by prudent use of Investment Income from funds accumulated in earlier, less active years.

Dependency has proven to be most unsatisfactory in the past, being subject to the whims of individuals or organization policy.

We remind those who have not yet paid 1972 Dues that expenses are about equal to our Cash Flow.

Also those in arrears over 3 years may, under the Bylaws be reinstated by payment of \$10 Admission Fee plus \$5 current Annual Dues.

BOOK REVIEWS

Abstracts or reviews of recent books by *members* of the Institute are invited for publication in *BRIEFS*.

SPECIAL NOTE TO NOMINEES

This copy of *BRIEFS* is being sent to those who were nominated by their colleagues but have not yet responded to the Application and letter sent to them. We would like to hear from you (either in the negative or the positive.)

ELECTIONS

(New officers assume office after the Annual Meeting)

ALASKA DISTRICT

Rupert E. Andrews, Director, Sport Fish Division, Alaska Dept. Fish & Game, has been elected Director of the Alaska District succeeding Dr. William R. Meehan, who effectively served the Institute during the past three years.

NORTHWEST WASHINGTON

The NW Washington District elected Dr. Richard Whitney, Coop. Fish. Unit, Univ. of Wash., Seattle, to succeed Richard J. Myhre who has completed a most successful three-year term as Director.

NATIONAL

A Committee under Dr. E. J. Crossman has nominated the following *FELLOWS* for President: F. E. J. Fry and T. S. Y. Koo and for Vice President: I. Barrett and E. C. Raney.

THE EDITORS CORNER . . .

"I appreciate the opportunity to serve as Editor for *BRIEFS*. If our newsletter is to effectively communicate between members and Districts, I must have input. I encourage all Directors to solicit among their District memberships for reporters who will provide information on AIFRB activities. Each member should contact me directly with suggestions or criticisms for *BRIEFS*. These will be welcomed, I assure you."

Dr. James B. Reynolds
Coop. Fish Unit, Univ. Mo.
Columbia, MO 65201

NEWS LETTER

Responses to questions in the February *BRIEFS* are summarized below:

(1) FREQUENCY? per annum.

0 times . . .	0%	Twice . . .	32%
Once	5%	Thrice . . .	20%
Quarterly	36%		
Occasional	0 times		

The Board decided upon 3 or 4 per annum as the Editor may decide.

(2) NAME? *BRIEFS* was preponderantly favored. Aquanotes, Fishscope, Bio-ost, A & E (for Achievement and Excellence), Annulus, Circulus, Epiboly, Excellere Sum were among the 26 names proposed.

(3) EDITOR? Twenty-eight persons were proposed by the membership and some volunteered.

☆

President Hamilton announces that the Board has selected Dr. James B. Reynolds as Editor of *BRIEFS*.

He will take over from F. Heward Bell, Secretary-Treasurer and Secretary of Membership pro tem, who produced the present June and initial February issues.

ABSTRACT:

"Exotic Aquatic Organisms in Florida"
By W. R. Courtenay and C. R. Robins

Florida is dominated by water and the attendant problems of flood, drought, pollution and massive changes in the vertical and horizontal distribution of the water masses made by man. Introduced life forms or exotics constitute a further pollution as 'agents of environmental change.' The magnitude of introductions of fish is very high — 75% of all United States imports of tropical fish enter at Florida ports. The State is also a center for the breeding of such species.

The warm and disturbed natural environment results in a higher survival of such exotics that might escape or are purposely released into State waters. Also there are some indications that exotics may more readily replace native forms in a weakened environment. **Accidental Introductions** arise from escapes or releases of rejected stock from commercial aquarists; from amateur aquarists who terminate their hobby; from laboratories that use such exotics for study and by tourists who usually tire of their acquisition. **Intentional Introductions** for purpose of sport, food, hobbies, or weed control by governments, private groups or individuals are a continuing problem and many have been ill-advised, (e.g. the grass carp). The uncontrolled release of such exotics should be prohibited. Furthermore there are attendant health hazards involved e.g. schistosomes or Bilharzia) and other human pathogens.

It is recommended that the objectives of any proposed introduction should be explicitly and publicly stated; the impact on the physical and biotic environment judged*; and, prior to any introduction, the results of controlled pilot tests be subjected to independent and public review.

(F. Heward Bell, 6/22/72)

*See Midgley 1968 (W. Churchill Mem. Trust Fellowship)

American Institute of Fishery Research Biologists

... BRIEFS ...

VOLUME 1, NO. 3

(CANADA, UNITED STATES, AND OTHER COUNTRIES)

OCTOBER, 1972

THE BOARD OF CONTROL

Held its Annual Meeting on September 14-15 at Stuttgart, Arkansas. The Board consists of the following (Those unable to attend marked*):

J. A. R. Hamilton, President
Ted S. Y. Koo, Vice President
Edwin L. Cooper, 1st Past President
Richard Van Cleve, 2nd Past President
*Rupert E. Andrews, Alaska
Izadore Barrett, Southern California

Robert L. Borovicka, Oregon-S.W. Washington
Stanford H. Smith, So.-Central-Great Lakes
Edwin E. Iversen, Florida
Richard J. Myhre, N.W. Washington
F. Heward Bell, Secretary-Treasurer and
Secretary of Membership pro tem

Observers: F. E. J. Fry, President-elect and James B. Reynolds, Editor of BRIEFS

Several business sessions were rounded out by an evening fish fry of catfish and the controversial White Amur or grass carp, and a visit to a catfish farm.

The Board expresses its sincere appreciation to the Staff of the Fish Farming Experiment Station, particularly Kermit E. Sneed, Director, Fred P. Meyer, Chief and Mayo Martin, Extension Biologist.

NEWLY ELECTED FELLOWS

— EXCELLERE SUM —

Lionel Johnson

Chief Scientist, Fisheries, Freshwater Institute, Winnipeg;
Population Studies on freshwater species 1959-1972, Intern Soc.
Limnol., Arctic Institute Can. Zool. Society.

On the basis of their Performance and Development since joining the Institute the following members were advanced to Fellow.

Kenneth K. Chew

Wilbur L. Hartman

Allan C. Hartt

Roy C. Nakatani

Alonzo T. Pruter

G. Morris Southward

Richard B. Thompson

Records of several others were not received in time to be considered at the September meeting.

MEMBERSHIP DISTRIBUTION

A statistical report by Ted Koo shows membership to be concentrated on the Pacific Coast (53%) particularly in Washington (27%) and more precisely, in the Puget Sound region. This is understandable because Seattle was the birthplace of the Institute and also a major center of fisheries research. While there are concentrations of members in Michigan and Florida, there is a great dearth of members in the South-Central and mid-Atlantic States.

While the membership base was broadened very markedly in 1972, it must be further improved if the Institute is to be truly a continent-wide organization.

As of October, 1972, there were 649 members, of which 595 were in the United States, 43 in Canada and 11 in other countries.

NEW MEMBERS

The Board of Control at the Annual Meeting tendered membership to 40 persons who had received the required number of nominations from their colleagues.

There were 7 ASSOCIATES—possessing a baccalaureate degree; 2 years experience; and with *professional promise*.

Thirty two (32) qualified as MEMBERS—28 years old; 7 years experience; and with publications which are a *significant contribution* to scientific knowledge.

One (1) qualified as a FELLOW—35 years old; 15 years experience; and of *distinguished achievement*.

This brings the total of new members in 1972 to 112, about 3 times the normal annual increment.

? EAST COAST VOLUNTEERS ?

The geographical distribution of AIFRB members indicates the East Coast has a relatively low representation. From Maine to Florida there are approximately 36 marine research laboratories, each with from several to several hundred scientists, many of whom may qualify for and be interested in AIFRB membership.

To help promote East Coast activities, I have been asked to serve as East Coast editorial representative for BRIEFS. In this regard I would like to have a reporter in each Eastern Seaboard State. If you would like to serve, please contact me.

Dr. Walter J. Hogman
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062

DISTRICTS IN ACTION

Alaska

With the unanimous support of the Alaska District, Director Rupert E. Andrews sent a letter to Governor William A. Egan explaining the purposes of the Institute. The Governor was urged to maintain, in every possible way, the professional competence of the Alaska Department of Fish and Game.

The letter noted that the Alaska District was greatly concerned with (1) protecting remnant salmon and trout populations in suburban areas. (2) guarding fishery resources from pollution and other forms of habitat destruction, and (3) informing the public of the goals and practice of conservation and of threats to our natural resources.

Northwest Washington

A District report, *CONDITIONS OF EMPLOYMENT FOR FISHERY BIOLOGISTS ON THE PACIFIC COAST* has been completed.

ABSTRACT by F. Heward Bell

Salaries of Federal biologists increased 6.2% annually, 1967 to 1972. The consumer price index increased 4.9% annually in the same period. The present starting level is \$7,319. The average grade is GS 11.7 which at step 5 would be \$15,000. International Commission salaries and grades are comparable to Federal ones. State and University levels for comparable responsibility and experience remain substantially below Federal levels, despite average annual salary increases of from 3.8% to 10.2% in various Pacific States since 1966. Data for the private sector are too few for meaningful averages. **EMPLOYMENT OPPORTUNITIES** for new college graduates are described as "grim," "critical," or "at a low level" except possibly for the highly motivated and very well qualified. (Abstractor's comment: this situation is common with governments, for despite increased budgets, elevated salaries and other costs leave little for new staff.) **PROVISION FOR CONTINUING EDUCATION** is an important side benefit in the Federal Service but of lesser significance in State, University or Commission employment. **SUPPORT FOR PROFESSIONAL SOCIETIES** was concurred in by all agencies in principle provided responsibility was shared by all agencies and were within budget limits. **IN CONCLUSION**, it is very evident that salary levels in State and University employment as well as opportunities for further training lag considerably behind those of the Federal Government.

Copies of full report may be borrowed from Committee Chairman, Robert R. French, 2725 Montlake Blvd. E., Seattle, WA. 98102.

ELECTIONS

F. E. J. Fry and Izadore Barrett were elected President and Vice President respectively for the ensuing two years.

HOT SPRINGS RECEPTION

The Institute hosted a reception at the Annual Meeting of the American Fisheries Society in Hot Springs, Arkansas. Of the 78 people in attendance, more than half were not AIFRB members. Vice President Ted Koo briefly explained the purpose and objectives of the Institute. The reception was a real success, particularly in terms of membership recruitment.

NOTA BENE

I.

A new Directory is planned to include our 112 new members. Unless done previously, send in your corrections to the 1 January 1972 Directory.

II.

While it may be fashionable to operate on a *Deficit Basis*, please remit Annual Dues. The Institute functions on a narrow margin between *Income* and *Outgo*.

III.

Those in *ARREARS* over 3 years may be reinstated on Payment of \$10 Admission Fee and \$5 current Annual Dues. (Amnesty?)

IV.

NEW MEMBERS: Please remit your Fees and Dues as well as your Middle Names. Diplomas for new members are being ordered on November 15.

THE EDITOR'S CORNER

Response to BRIEFS has been positive and gratifying. It is important that our newsletter be functional and interesting — not just something else for the "circular" file. To accomplish this, BRIEFS should:

INFORM our membership, particularly Members-at-Large, of Institute activities and policies,

INFORM our membership, particularly Members-at-Large, of Institute activities and policies,

RECOGNIZE the achievements and accomplishments of AIFRB members (but not document their routine comings-and-goings),

COMMUNICATE to the fishery research community the continuing role of the Institute in promoting professionalism,

UPDATE membership status, particularly with regard to advancement and dues (reminders), and

RECRUIT new members by indirect circulation to qualified non-members, particularly in areas of low membership density.

I again encourage individual members to send items for BRIEFS directly to me. Deadline for the next issue is January 8, 1973.

Dr. James B. Reynolds
Coop. Fish Unit, Univ. of Mo., Columbia, MO 65201

BOOK ANNOUNCEMENTS

By F. Heward Bell

Introduction to Fishery Sciences

William F. Royce, FELLOW, AIFRB

350 pp. \$14.50 Academic Press

This book is a *must* for the Teacher, the Student and those of the Public wishing to understand the life forces that exist in the aquatic world about us.

It exposes the elements involved in man's impact upon the aquatic biosphere covering such topics as the environment, food chains, the biology and ecology of resource organisms including aquaculture, fisheries and their management.

The Columbia River Estuary and Adjacent Ocean Waters. Bioenvironmental Studies:

Editors A. T. Pruter and D. L. Alverson, FELLOWS, AIFRB

868 pp. \$22.00 Univ. Wash. Press

This large volume becomes an instant classic by its comprehensive account of the impact of nuclear wastes upon the biotic environment of one of the great rivers of the world. While only more recent studies are included each contains an excellent bibliography of prior work.

Editors Pruter and Alverson have skillfully grouped 33 diverse studies into four logical categories namely, Backgrounds, Ocean Relationships, Marine Biota, and Radionuclides in the Ecosystem. The perceptiveness of the Editors is also manifest in the Preface, The Summary and an excellent Subject Index.

Fish Nutrition

Editor John E. Halver, FELLOW, AIFRB

726 pp. \$32.50 Acad. Press

This volume brings together all the fundamentals involved in the science. Among the contributors in addition to Editor Halver with a section on The Vitamins, Roger E. Burrows, Fellow, AIFRB covers Salmonid Husbandry Techniques and S. F. Snieszko, Fellow, AIFRB contributes the section on Nutritional Fish Diseases.

Fish in Research

Editor John E. Halver, FELLOW, AIFRB and
Otto W. Neuhaus

324 pp. \$9.50 Acad. Press

This is a useful compilation of papers on the use of fish in the understanding of biological processes. Editor Halver contributes a section on Vitamin Requirements.

A number of *Fellows* and *Members* have contributed to recently published Symposia on various subjects. The name of the publication and each members contribution follows:

Biology of Lampreys. Vol. 1, 440 pp. \$23.50 Acad. Press. C. L. Hubbs, Fellow, AIFRB et al, Distribution, Phylogeny and Taxonomy. B. R. Smith, Member, AIFRB, Sea Lampreys in Great Lakes of North America.

Diseases of Fish. 380 pp. \$21.00 Acad. Press. S. F. Snieszko, Fellow, AIFRB, Progress of Fish Pathology in this Century. G. W. Klontz, Member, AIFRB, Haematological Techniques and the Immune Response in Rainbow Trout.

Microbial Safety of Fishery Products abt. 325 pp. in prep., Robert Y. Ting, Fellow, AIFRB, Production and Conservation of Fish and Shellfish in Puerto Rico.

River Ecology and Man. 492 pp. \$11.50 Acad. Press. Parker S. Trefethen, Member, AIFRB, Man's Impact on the Columbia River. Justin W. Leonard, Fellow, AIFRB, Summary of Symposium.

Fish Physiology. Vol. 6 Environmental Relations and Behavior. 576 pp. \$30.00 Acad. Press, F. E. J. Fry, Fellow and President AIFRB, The Effect of Environmental Factors on the Physiology of Fish. Arthur D. Hasler, Fellow, AIFRB, Orientation and Fish Migration.

Systems Analysis and Simulation in Ecology, Vol. 2 abt. 650 pp. in prep. Acad. Press. Paul B. Sails, Member, AIFRB, Systems Analysis Applied to Some Fisheries Problems. G. J. Paulik, Fellow, AIFRB, Digital Simulation Modeling in Resource Management and Training of Applied Ecologists.

WETLANDS PUBLICATION AVAILABLE

Virginia Institute of Marine Sciences, announces a special publication of wetlands ecology, entitled "Coastal Wetlands of Virginia" by Marvin L. Wass and Thomas D. Wright, 154 pp. 1969.

The report contains a wealth of information on the value and ecology of freshwater, brackish estuarine and coastal marshes. There are sections on Faunal Phenomena, Plant Communities, Erosion Considerations, Legal Aspects, Vulnerability, Production, and Recommendations for Preservation. The life histories of shad, striped bass, croaker, spot, white perch and others, are summarized, and the commercial catch of wetlands-dependent fishes is also given.

Copies may be obtained by sending \$1.00 for postage and handling to the Librarian, VIMS, Gloucester Point, VA 23062.

In Memoriam

OSCAR ELTON SETTE

Dr. Oscar E. Sette, distinguished marine scientist and a Founding Fellow of AIFRB, died on July 25, 1972, at Palo Alto, California, at the age of 72. Dr. Sette made numerous and major contributions to the sciences of fishery biology and biological oceanography.

The AIFRB membership expresses its sorrow to the family of Oscar E. Sette. His life and career are outstanding examples of what the Institute stands for; achievement and excellence. His influence we will sorely miss.

HURRICANE AGNES EFFECTS ON FISHERIES

In addition to widespread human life and property loss, a hurricane has great potential effects on coastal fisheries. The primary mode of destruction is the change in salinity throughout the estuaries.

When Hurricane AGNES struck, June 19-21, it dumped massive amounts of freshwater in Chesapeake Bay's 64,000 square-mile drainage. This water began running to sea, normal tidal excursion was interrupted, and freshwater covered valuable oyster and clam beds throughout the tidewater area.

In lower Chesapeake Bay, the Virginia Institute of Marine Science mounted a major investigation program under Dr. William J. Hargis, Jr., Director, and Dr. Jackson Davis, Assistant Director. A multidisciplinary group began studying hydrographic effects of AGNES, erosion and sedimentation, nutrient and pesticide loading, bacterial contamination, current patterns and tidal recovery, plankton distributions, fish larvae transport, change in adult fish distribution, mortalities of oysters and clams, and effects on the crab populations.

The precise and long-term effects of AGNES on the fisheries resources may never be known, but the results from this summer's work allow some tentative conclusions. *Oysters* in the James River experienced approximately 20% mortality over a two-month period due to prolonged exposure to low salinity water, according to Dr. Jay Andrews. The mortalities were greatest in the upper reaches of the normally saline zones and the shallow water beds were affected more than the deeper. The Potomac River and the Rappahannock River also lost large quantities of oysters. The stocks along the Atlantic Ocean were not seriously affected.

Blue crabs were displaced downstream by AGNES and catches declined in most areas for several weeks. Because of their mobility, the blue crabs apparently did not suffer extensive mortality. The 1972 larvae were probably most affected, but the results are not yet clear.

Transport of *larval fishes* out of the James and Rappahannock was considerable over the first 10 days after AGNES. Preliminary calculations by Dr. W. J. Hogman based on catches made during maximum flow, indicate 40-80 million larval fish may have been lost per day in the Rappahannock. Other planktonic forms were also flushed out and this fishfood loss could conceivably further reduce year-class strength of the species collected.

Adult fishes were not affected appreciably by Hurricane AGNES. Trawling operations just after the storm, and repeated in late August, indicated the freshwater runoff merely displaced the adults downstream 15-40 miles. By late summer when salinities had returned to near normal, the adults were distributed as before the storm.

The above can only represent a sketch of flood effects on fisheries, or more precisely, fresh water pollution of saline zone fishery resources. The complete story will take years of follow-up investigation. The Maryland and Virginia oyster stocks have certainly been reduced. In Virginia waters alone, John Pleasants of VIMS estimates there has been a \$7.9 million loss due to oyster mortalities up to the end of July, 1972. Dollar losses of fish and crab stocks can only be evaluated in later years. (Specific articles effects of AGNES in Maryland waters can be found in "The Fish Boat," July and August 1972.)

Dr. Walter J. Hogman, VIMS

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