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# *American Institute of Fishery Research Biologists*

*Promoting excellence in fishery science*

## ... BRIEFS ...

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### Table of Contents

*President's Message*

*New Members*

*In Memoriam:  
Bernard E. Skud*

*Bernie Through The Eyes  
of a Member*

*Skud in his Own Words*

*Skud in the Papers*

*Member Spotlight*

*More AIFRB Videos*

*Founding Fellow*

*Bernie's Last BRIEFS  
Communication*

## New Members

Erin Adams  
Molly Adams  
James Bowker  
Carole-Anne Gillis  
Daniel Goethel  
Marissa Hammond  
Donald Kobayashi  
Najh Lazar  
Terry Salinger  
David Waltemyer

## President's Message

The AIFRB Board dedicates this volume of BRIEFS to Bernie Skud. Bernie was an accomplished researcher and leader in fisheries, and we honor him for his service and dedication to our Institute. Among his many leadership positions, he was Director of the NMFS Fisheries Lab in Boothbay Harbor, ME (1960-70), the International Pacific Halibut Commission (1970-78), and the International North Pacific Fisheries Commission (1986-91), and he was President of AIFRB (1982-1984). I was familiar with some of Bernie's publications on American lobster, but I regret that I only met him and got to know him in the last few years. I'll share a story about Bernie that I think was also an important episode in the governance of AIFRB. As the newly elected Director of the New England District, I attended my first Board meeting in 2007. Earlier that year, Bernie wrote a scathing letter to the Editor of BRIEFS, criticizing the AIFRB leadership on matters of recruitment and retention of members, involvement of members, help for District Directors, the quality of the newsletter, exclusion of freshwater researchers, and enforcement of ethics standards. As you can imagine, Bernie's message struck several nerves in the leadership of AIFRB. However, I was impressed by the Board's unanimous reaction, which recognized that critical views are invited from the membership, particularly if they offer constructive solutions. The Board then devoted a large portion of the meeting to confronting each of the concerns raised in Bernie's letter and developed an action plan to address each problem. The experience invigorated my desire to become more involved in AIFRB. Encouraging members to speak out about controversial topics and providing opportunities to do so is rare among professional organizations, and the approach adds value to our profession and our organization. Responding to controversy in an inclusive and transparent way, rather than a defensive and dismissive way, also offers a model for change and improvement in our science and scientific leadership. You might think that it is ironic to dedicate an issue of the newsletter that Bernie criticized, but his provocative spirit helped to improve the newsletter and other aspects of our Institute. Many of the issues that Bernie raised in his 2007 letter continue to be a challenge for us, but I hope that he would be satisfied to see how we are responding and how we invite other members to speak out as he so passionately did.

*Steve Cadrin, President*

# **IN MEMORIAM**

## **Bernard E. Skud**

### **1927-2014**



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Bernard Einer Skud died suddenly at his home in Oak Harbor on April 16, 2014 at the age of 87. Bernie was the son of Ferdinand and Elma (Hendrickson) Skud, born January 31, 1927 in Ironwood, Michigan. He graduated from Luther L. Wright High School and served in the U.S. Navy during World War II.

Following his military service, Bernie received his Bachelor of Science and Master of Science degrees from the University of Michigan. He was married to the former Patricia Dufflin in Wakefield, Michigan, on August 20, 1950.

Bernie worked as a Marine Biologist for forty years, including work for the U.S. Bureau of Commercial Fisheries in Alaska, New England and the Gulf of Mexico. He served as Chief of Alaska Herring Investigations, Assistant Director in Galveston, Texas, and Director in Boothbay Harbor, Maine.

He attended Princeton University (1967-68) as a Woodrow Wilson Fellow of Public and International Affairs. From 1970-78, he served as Director of the International Pacific Halibut Commission in Seattle. In 1978, he moved on to become Division Chief, National Marine Fisheries Service, Washington, D.C., and Scientific Advisor in Narragansett, Rhode Island, until 1985. His next stop was as Director of the International North Pacific Fisheries Commission, Vancouver, British Columbia, from 1986 to 1991. Bernie retired in 1991 after a 40-year career and made Oak Harbor his home.

Bernie served as Committee Chairman at scientific meetings of the International North Atlantic Fisheries Commission and the International Council for Exploration of the Sea (Copenhagen, Denmark); President of the American Institute of Fishery Research Biologists (1982-84); Life Member of the American Fisheries Society and held offices in other scientific organizations.

He published over 100 technical papers and popular articles on salmon, herring, lobsters, halibut and mackerel.

Bernie was listed in several Who's Who, served as adjunct Professor for the School of Fisheries, University of Washington, and the University of Rhode Island. He traveled to 36 countries on business and pleasure, was a 50-year member of the American Legion, a member of Rotary International, served on the Board of Directors for St. Andrews Hospital in Boothbay, ME, was a Rotarian in Boothbay Harbor and the University Club in Seattle.

Bernie is survived by his wife of 54 years, Pat of Oak Harbor, three sons: Timothy Skud of Alexandria, VA; Ferd Skud of Anchorage, AK, and Eric Skud and wife Ann of Redmond, WA, and one sister, Elaine Allen and husband Robert of Palo Alto, CA. He was preceded in death by his parents and by one sister Joan Heinbaugh.

A Celebration of Life was held on Thursday, April 24, 2014 in Oak Harbor with Pastor Dave Johnson officiating.

To send condolences to his family:

Bernie Skud Family

125 S.W. Jib Street, Oak Harbor, WA 98277, USA

*The Halibut Commission has posted a short In Memorium on their website: [www.iphc.int](http://www.iphc.int)*

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## An In-Depth Look at Bernie Through the Eyes of an AIFRB Member

Bernie Skud was president of AIFRB during 1982-1984. As President-Elect in 1981, Bernie had to quickly assume his new role when AIFRB President John Radovich died suddenly of a heart attack while playing tennis in June 1981. During his tenure as AIFRB President, Bernie was employed by NOAA/NMFS as a



Division Chief and Scientific Advisor, Washington, D.C. / Narragansett, R.I. (1979-1985). Bernie's first President's Message to the AIFRB membership appeared in the 25<sup>th</sup> Anniversary (December 1981) issue of BRIEFS, and he stated: "As a memorial to our deceased President, John Radovich, I think we should adopt his slogan: **Let's Get Going in the 1980s.**" Bernie clearly recognized that AIFRB, like most professional societies, is "often are confronted with problems concerning membership, goals, roles and finances." Thus, many of the issues identified by Bernie in 1981 will be familiar to the current AIFRB Board of Control, including the geographic disparity in the distribution of membership, difficulties in defining AIFRB's role and in describing the benefits to an individual, and the "need for a vehicle to communicate with one another about our activities, to recognize competence and achievement, to show that the profession is viable, and most importantly, to identify problem areas."

In one of his first steps as President, Bernie launched a "new BRIEFS" with six issues (formerly two issues) a year that was to include news of fishery science, fishery

administration, fishery politics, and fishery scientists. Bernie also proposed to study the feasibility of publishing an annual review, "Perspectives of Fishery Science 1982," to "provide an exchange of ideas and information, available to all members, without the cost of a national meeting," although this idea never came to fruition. Nevertheless, throughout

his tenure, Bernie provided articles to BRIEFS on fishery management and policy issues: for example, the impact of high-seas fisheries on Atlantic salmon (*Atlantic Salmon Convention*, February 1982 - BRIEFS; *Looking Backwards*, December 1982 - BRIEFS) and the positive impact of recommendations by the Alaska District of AIFRB concerning the rehabilitation of salmon stocks (AIFRB Recognition, April 1982 - BRIEFS). An editorial by Bernie in the October 1982 issue of BRIEFS, "Who Are The Managers? What Is A Manager" discussed the expanded use of the term "manager" to describe bodies and individuals involved in the fishery management process, including those having little or no experience with fisheries, but perhaps having related expertise in economic or social aspects of fisheries.

Bernie challenged readers to consider that "some research administrators pride themselves with efforts to keep scientists aloof from the decision-making process—others take as much pride in having their scientists involved as much as possible" asking "Where do you stand and why?" In a commentary on Bernie's question (December 1982 –



BRIEFS), Henry O. Wendler, Pacific Fishery Management Council, concluded: "I favor this latter approach. Why? If we, as supposed experts abrogate our responsibilities to the resources, who will take our place?" Another BRIEFS article (December 1982), "Inter- and Intra-specific Stock and Recruitment," coauthored by Bernie and Daniel Pauly, focused on the issue that "failure to demonstrate a stock-recruitment relation may be influenced by interspecific relations as indicated by Pauly (Trans. Amer. Fish. Soc., 111, 1982)," and readers were invited to provide their views on this topic. In a review of the FAO Meeting on Neritic Fishes, Costa Rica (June 1983 - BRIEFS), Bernie included a brief discussion of his thesis that the "failure" of long-term significant correlations between fish abundance and environmental factors is "sometimes caused by a change in dominance, i.e. the response to fluctuations in the environment is dependent on whether the species is dominant (more abundant) or subordinate."

Bernie contributed substantially to efforts to increase AIFRB membership by sending letters to former members of the Institute encouraging them to rejoin the Institute's efforts and distributing announcements for membership to fishery offices, laboratories, and universities for the purpose of contacting potential new members. For the first time in 1981, the Associate member category was opened to graduate students, resulting in 31 new Associate members during the following year. And in 1983, a new program of grants to encourage and improve Associate member's attendance at scientific meetings (Travel Assistance Awards) was approved. These additional efforts boosted AIFRB membership to a total of 1,173 with 70 new applicants approved for membership in 1983.

For the September 1982 Board of Control meeting, Bernie prepared the Institute's first briefing book, a working document for the meeting that could be updated annually with additions or deletions. As intended, over subsequent years the document proved to be of "invaluable assistance" to newly appointed AIFRB board members and officers. At this meeting, Bernie was presented with the new official AIFRB gavel, handcrafted in walnut by AIFRB Member James E. Sykes. Bernie later remarked that he hoped the development of a Briefing Book for the Annual Meeting would free up more time for the Board to "concentrate future efforts on the professional goals of the Institute" (October 1983 - BRIEFS).

During Bernie's term as President he represented the

Institute at numerous meetings, including a meeting with the infamous Secretary of the Interior, James G. Watt. Bernie reported that Secretary Watt "talked about his concept of progress in the Department, which was mainly based on economic considerations, particularly of gas and oil leases" (BRIEFS - October 1983). During Bernie's term he also co-chaired a joint AIFRB/AFS session held at the annual AFS meeting, *Strategies for Management of North American Salmonid Stocks*. An important focus of this session was



the need for new international agreements on Pacific salmon.

The Special Group Award of Excellence was initiated by the Institute as a new award during Bernie's tenure as AIFRB President, and the first recipient was the Canadian Journal of Fisheries and Aquatic Sciences (formerly the Journal of the Fisheries Research Board of Canada). The award certificate was presented by Bernie to Jeff Watson, Editor-in-Chief of the Journal at the annual *Canadian Conference for Fisheries Research* in Winnipeg, Manitoba, January 1983. AIFRB's award recognized the Journal's achievement of "world-wide recognition for the caliber of its scientific articles," as well as the "contribution of the Journal in furthering the standards of professionalism among fishery scientists." In his 1983 AIFRB President's Report (BRIEFS - October 1983), Bernie noted, "I was pleased with the publicity AIFRB received as a result of this award, but





January 3, 1983 Canadian Conference For Fisheries Research, Winnipeg, Manitoba. Bernard E. Skud, President, presenting AIFRB Special Group Award of Excellence for the Canadian Journal of Fisheries and Aquatic Sciences to Jeffrey Watson, Editor-in-Chief and Director of the Scientific Information and Publication Branch, Fisheries and Oceans, Canada.

think that even more should be done to publicize the Award and AIFRB's activities." An *Ad Hoc Awards Systems Committee*, headed by Gene Nakamura, and assisted by Jack Helle and Joan Browder, was appointed by Bernie to examine all AIFRB awards and establish criteria, including new suggestions. Bernie presented the 2<sup>nd</sup> Group Award to the Great Lakes Fishery Commission in 1983. The Commission shared the Award with several other agencies responsible for "the success of revitalization of existing fisheries and introduction of species that have helped the expansion of recreational angling" (BRIEFS - February 1984).

As an AIFRB Past-President in 1985, Bernie, working with the Citizen Ambassador Program and People-to-People International (founded by U.S. President Eisenhower in 1956), led a delegation of 27 AIFRB members to Japan, China, and Korea to visit major institutions concerned with fishery research and fish production, including fishery agencies and their laboratories, scientific societies, aquaculture projects, commercial operations, and other research institutions. This scientific and cultural journey was documented by daily logs of individual members in the August 1985 issue of BRIEFS.

While this memorial focuses on Bernie's many contributions to AIFRB, his short auto-biography from his website summarizes his contributions to many organizations throughout his life:

#### **Bernard E. Skud**

##### **Former Director:**

BCF/NMFS Fisheries Lab, Boothbay Harbor, Maine  
International Pacific Halibut Commission, Seattle, WA  
International North Pacific Fisheries Commission, Vancouver, BC

**Bernard Einar Skud** was born in Ironwood, Michigan during a snowstorm in January, 1927 - the same month as his father (Ferdinand) in Goteborg, Sweden. His mother (Elma) was born in Tornio, Finland. He graduated from the Luther L. Wright High School and served in the U.S. Navy (WWII); received his B.S. & M.S. from the University of

Michigan (1950). He married Patricia Duffin from Wakefield, Michigan in 1950; they have three sons, Tim, Ferd, and Eric. During his 40-year career as a marine biologist, he was employed by U.S. fishery agencies (FWS, BCF, NMFS) and two International Fish Commissions. He held the following positions: Asst. Director, Galveston, Texas; Director, Boothbay Harbor, Maine (1960-70, also serving as U.S. representative at meetings of ICNAF, ICES, and FAO); Director of IPHC, Seattle, WA (1970-78 - seconded from NMFS); Division Chief and Scientific Advisor, Wash. DC / Narragansett, R.I (1979-1985) and Director of INPFC (1986-91, Vancouver, British Columbia). He authored publications on pink salmon, herring, lobster, mackerel, halibut, Passamaquoddy Tidal Dam, solar eclipse, and dominance in fishes. He was Adjunct Professor at the Universities of Washington and Rhode Island; a Woodrow Wilson Fellow at Princeton (1967-68). President of AIFRB (1982-84); Leader of People To People contingent of fishery scientists to Japan, China and Korea (1985). He was a member of several scientific societies and had editorial duties with AFS, FRBC, ICNAF, NSF. He was a member of Rotary International, the Board of St. Andrews Hospital (Maine), and is a member of the American Legion.

Kate Myers, May 2, 2014

[kwmyers@u.washington.edu](mailto:kwmyers@u.washington.edu)

## **Bernie In His Own Words**

#### **Bernard E. Skud**

##### **Former Director:**

BCF/NMFS Fisheries Lab, Boothbay Harbor, Maine  
International Pacific Halibut Commission, Seattle, WA.  
International North Pacific Fisheries Commission, Vancouver, BC

#### **Introduction**

The main purpose of this Website is to report on a little known collection of data by NMFS that spans some 40 years. The story begins in the 1930's when the U.S. fishery agency established a research station at Little Port Walter (LPW), Alaska to study pink salmon. A unique two-way weir was constructed at Sashin Creek to enumerate spawners and their progeny — as they migrated to sea. The objective was to determine which factors controlled the varying percentages of annual survival. Based on data from 1940-1955, a promising hypothesis stating that the size of spawners controlled the time of spawning which itself was correlated with the survival rate (Skud, 1958). In subsequent years, Merrell (1962), McNeil (1968) and Ellis (1969) confirmed the relationship and showed that the time accounted for 90% of the survival rate for 25 years. Skud (1973) summarized the "size-time-survival" hypothesis and presented supporting data from other sources in Alaska and British Columbia — there has been no publication since that confirms or negates the "size-time-survival hypothesis."

Now for the rest of the story: The weir deteriorated in

the late 1960's and a new method of estimating the abundance of fry was introduced, i.e. salmon nests were sampled with hydraulic pumps. Other changes have also occurred — pink salmon from another river have been introduced into Sashin Creek, and sampling for fish size has been very limited in some years and not always distributed over the entire spawning period — the earliest spawners are larger, and inadequate sampling could distort the mean size.

This problem led to another purpose for this website, which is to call attention to a few papers of mine that were not published in North America and, along with others now “out of print,” that are not readily accessible on the Internet. None of my halibut papers are included on this website, as they are available in the “library” of the IPHC website.

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## Bernie In The Papers

### **Ironwood Daily Globe (Newspaper) - Ironwood, Michigan, MAY 5, 1964**

#### **ICNAF Meeting**

Bernard E. Skud of Boothbay Harbor, Maine, who is the son of Mr. and Mrs. Ferdinand Skud of Ironwood, is in Hamburg, Germany, attending the annual meeting of the International Commission for Northwest Atlantic Fisheries (ICNAF). Skud, who is the laboratory director of the Bureau of Commercial Fisheries Biological Laboratory at Boothbay Harbor, and chairman of a committee on herring, will lead discussions with Canadians and Russians on herring fisheries in the Gulf of Maine. Scientists from the 13 member countries will present the results of their research at these meetings, and Joint recommendations for future research efforts will be formulated. Each country will provide detailed statistics on the fisheries or various species.

<http://newspaperarchive.com/us/michigan/ironwood/ironwood-daily-globe/1964/05-26/page-7>

### **The Lewiston Daily Sun, APRIL 20, 1966**

#### **Herring Supplies May Be Predicted**

BOOTHBAY HARBOR (AP) – A federal fisheries scientist reported Wednesday that there is progress toward eventual ability to predict the supply of herring for sardines several months to a year in advance. Bernard E. Skud, director of a project sponsored by the U.S. Bureau of Commercial Fisheries, reported to a meeting of about 40 Maine sardine canners on a long term herring research program. The industry views the ability to predict the herring supply as of major importance in successful cannery operations. Skud also told the canners that the fishing being done by the Russian fleet in the Gulf of Maine is being studied to learn what, if any, effect it may have on the herring supply.

<http://news.google.com/newspapers?nid=1928&dat=19660420&id=zGkgAAAIBAJ&sjid=3mYFAAAIBAJ&pg=1023,5883744>

### **Ironwood Daily Globe (Newspaper) - Ironwood, Michigan, MAY 2, 1967**

#### **Skud Receives Fellowship To Princeton**

Bernard E. Skud, former Ironwood resident, has received a Fellowship in the graduate program of the Woodrow Wilson School at Princeton University. He is the son of Mrs. and the late Mr. Ferdinand Skud of 155 Michigan Ave. As a Princeton Fellow, Skud will spend the academic year of 1967-68 at the University in Princeton, N. J. He will be on educational leave from his position with the U.S. Bureau of Commercial Fisheries (Department of Interior). Skud has been with the department since 1950 and is the director of the Bureau's Biological Laboratory in Boothbay Harbor. Mr. Skud was graduated from the Luther L. Wright High School and holds bachelor and Master of Science degrees in zoology from the University of Michigan. He has had additional graduate study at the University of Washington in Seattle and has studied at the Brookings Institute in Washington, D.C. Skud joined the Bureau of Commercial Fisheries in Seattle, Washington as a fisheries research biologist in 1950. His initial research assignment was on salmon in Alaska. In 1954, he was appointed to head the Alaska herring investigations and continued in this capacity until he was transferred to the bureau's laboratory in Boothbay Harbor, Me. This was a two-year assignment in conjunction with the International Passamaquoddy Fisheries Board. On the completion of this program, Skud was appointed assistant laboratory director of the bureau laboratory in Galveston, Tex. He served in this capacity until 1961 when he returned to Boothbay Harbor as the laboratory director, his present position. Skud has authored 30 papers on his research, covering various aspects of the biology and ecology of salmon, herring, and lobsters. He has participated in international meetings in Denmark, Germany, Holland, Italy and Spain, and has traveled to laboratories in England, Norway and Sweden. Skud holds membership in several scientific societies and is presently the book review editor for the American Fisheries Society. He is recognized by the society as a professional fishery oceanographer, is an elected member of the American Institute of Fishery Research Biologists and is listed in American Men of Science. Skud is a member of Rotary International and serves on the Board of Directors of the St Andrews Hospital in Boothbay Harbor. He is married to the former Patricia Duffin of Wakefield, they have three sons, Timothy, Ferd and Eric. The fellowship at Princeton's Woodrow Wilson School of Public and International Affairs includes a stipend from the university and a flexible program of course work and seminars. The faculty assists the Princeton Fellow in planning a year's educational experience to meet the particular needs of his career, but no specific seminars or courses are required. In addition to the formal education program, policy conferences are held with the Princeton faculty, scholars and public officials to exchange views on contemporary problems. Purpose of the program is to broaden the person's

perspective beyond his particular specialty and to increase his capacity to analyze and communicate the results of research. Upon completion of the fellowship, Skud will return to his position as laboratory director in Boothbay Harbor.

<http://www.newspapers.com/newspage/55606405>

### **Seattle Pi, Letters to the Editor, APRIL 14, 2001**

#### **Fishstocks**

NMFS administrator seems to deny agency's report William Hogarth, acting administrator of the National Marine Fisheries Service, claimed that the P-I misinterpreted an NMFS report on the status of the nation's marine fish stocks (March 28). I say the P-I (March 8) was right on. (Hogarth didn't challenge the P-I's data that is repeated here.) NMFS reported that the number of fish stocks needing stronger conservation measures has increased four years in a row, now more than 100. The P-I considered this trend appalling and concluded that the outlook was bleak. Hogarth disagreed and said, "The health of the nation's fisheries is anything but bleak" — a response tantamount to denying his own agency's report.

The "good news" Hogarth offered is that NMFS now has more than 75 rebuilding plans — doesn't this mean that 75 stocks are in trouble? Management plans formulated by the Fishery Councils have been approved by NMFS for more than 20 years. Is there a guarantee that the new plans will be more effective than the old ones?

Hogarth's other "good news" is that "We know more now about our marine fish than ever before." I contend that this statement has been true every year since the founding of NMFS' predecessor agency in 1886. The P-I cited examples of this new knowledge: Of five stocks approaching an overfished condition last year, three are now overfished or are "experiencing overfishing." Of 92 stocks classified as commercially depleted, more than half remain unprotected. Many other stocks lack adequate information to determine their status — how bleak can it get?

Hogarth did not address these statistics directly, but said he wants NMFS to "improve both the way we do business and the way we communicate." Changes in the agency are needed and it is understandable how one can be overzealous about in-house progress, but vigilance must be maintained so that the ultimate goal — healthy fish stocks — is not lost in the shuffle.

Bernard E. Skud, Former Director, International Pacific Halibut Commission International North Pacific Fisheries Commission, Oak Harbor

[www.seattlepi.com/news/article/Letters-to-the-Editor-1052074.php#page-1](http://www.seattlepi.com/news/article/Letters-to-the-Editor-1052074.php#page-1)

### **Whidbey News-Times, AUGUST 18, 2007**

#### **Board needs it's devil's advocates**

The Oak Harbor School Board signed a letter entitled "School critics enlighten board" (News-Times, Sept. 4, 2004).

It included statements as: (1) Community input is encouraged and welcomed. (2) Your opinions do matter. (3) It was a good lesson in humility to hear what needs fixing in the OH School District. (4) It was clear that some citizens have been turned off by a perception of arrogance.

Kathy Jones signed that letter, but the tone of her July 28, 2007 letter is quite different. Instead of "welcoming input," she complained that Mr. Burnett "has been one who always criticizes." Do opinions from the public have to agree with those of the board? In my view, the community owes a debt to Mr. Burnett and others (notably, Scott Hornung), who offer a valuable service as devil's advocates and keep the board on its toes. Checking educational progress and budgets and comparing these data with other districts are difficult tasks and are very time consuming. It is important for the public to be aware of alternative approaches to district problems as well as instances when the board misrepresents data or when expenditures are questionable.

Ironically, the Whidbey News-Times, that thrives on investigating, is also misguided about Mr. Burnett's role in probing the activities of the school district. An editorial (May 10, 2006) listed this reason for voting: "It would be fun to pass the bond just to see constant school district critic Bill Burnett have a bad day on May 16."

Bernard E. Skud, Oak Harbor

[www.whidbeynewstimes.com/opinion/letters/18218414.html](http://www.whidbeynewstimes.com/opinion/letters/18218414.html)

### **Whidbey News-Times, APRIL 23, 2009**

#### **Anti-turbine letter extreme**

I want to be on record as one who disagrees with most of the "facts" and extreme predictions presented by Dr. Benjamin Hu in his letter concerning turbines in Puget Sound (Whidbey News-Times, April 18). This is not to say that no fish will be harmed if the turbines are installed.

I am a retired marine biologist; a former director of the International Pacific Halibut Commission (Seattle); the International North Pacific Fisheries Commission (Vancouver, B.C.); and a National Marine Fisheries Service laboratory (Maine).

Years ago, I was a member of the Passamaquoddy Fishery Investigations, studying the effects that tidal dams could have on fish in an area near the Bay of Fundy (world's highest tides). Some of my scientific papers referenced on the Internet are about salmon and halibut — species of concern that were mentioned in Dr. Hu's letter.

Bernard E. Skud, Oak Harbor

[www.whidbeynewstimes.com/opinion/letters/43589362.html](http://www.whidbeynewstimes.com/opinion/letters/43589362.html)



# Bernie's Research

## Factors Regulating the Production of Pink Salmon

Anadromous fishes offer several advantages over marine species in the study of the relation between stock and recruitment because spawning is confined to... [Read more at aifrb.org](http://aifrb.org)

## Relation of Adult Pink Salmon Size to Time of Migration and Freshwater Survival

The two-year life span of the pink salmon, *Oncorhynchus gorbuscha* (Walbaum), is climaxed by spawning activities in the fall. The eggs, laid in gravel beds... [Read more at aifrb.org](http://aifrb.org)

**Length-Weight Relationship in Migrating Fry of Pink Salmon (*Oncorhynchus gorbuscha*) in Sashin Creek, Little Port Walter, Alaska** Copeia (3), 1955, 204-207

The spawning migration of pink salmon, *Oncorhynchus gorbuscha* (Walbaum), at Sashin Creek, Little Port Walter, Alaska occurs during the months of August and September. Length measurements show that adult females... [Read more at aifrb.org](http://aifrb.org)

## Dominance in Fishes: The Relation Between Environment and Abundance

Marine fishery studies are replete with comparisons of environmental factors and population abundance or recruitment, and, recently, correlation matrices have been used to compare responses (coefficients) of different species... [Read more at aifrb.org](http://aifrb.org)

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## MEMBER SPOTLIGHT

### Folks Who Would Make Bernie Proud!

#### AIFRB Member Photo Used on MSN

A didymo mat several centimeters thick covers the rocky substrate of the crystal clear Duval River. Thick and extensive blooms are known to affect the structure and function of river ecosystems. Didymo's recent proliferation is likely unprecedented in eastern Canada and elsewhere around the world. Credit: *AIFRB Member Carole-Anne Gillis*

<http://local.msn.com/rock-snot-gets-slimy-boost-from-global-warming>



#### Sharks! Conservancy and AIFRB

*AIFRB Member Helena Aryafar* is part of the Gills Club - a signature action project by the Atlantic White Shark Conservancy dedicated to connecting girls with female marine biologists, sharing knowledge, and empowering them to take leadership positions and inspire others with their passion for sharks. The Gills Club harnesses girls' passion for science, nature and the environment by giving them the opportunity to engage in projects focused on making a significant impact on the way sharks are perceived by the public.

[www.atlanticwhiteshark.org](http://www.atlanticwhiteshark.org)





## **Masturus lanceolatus** **AIFRB MEMBER: Donald Kobayashi**



Sharptail mola accidentally captured in Cobb midwater trawl by fishery scientists operating in waters off American Samoa. Very cool animal!

YouTube.com > “Masturus lanceolatus”

## **AIFRB on a Magazine Cover!**

Paul Kuncho and *AIFRB Member Daniel Goethel* fishing for whiting (silver hake) southwest of the Isles of Shoals on the 44-foot Ellen Diane, a stern trawler out of Hampton, NH. One 45-minute tow yields 101 boxes (10,000 pounds) of herring, silver hake and red hake.



## **AIFRB Member Wins Honorary Degree**

The University of Guelph in Ontario, Canada, has awarded an honorary degree to AIFRB Member Marc Mangel, distinguished research professor of applied mathematics and statistics at UC Santa Cruz. Mangel will be awarded the degree of Doctor of Science, *honoris causa*, at convocation ceremonies at Guelph in June 2014. The



degree was awarded in recognition of Mangel’s “significant academic contributions combining mathematics and statistics with theoretical ecology and evolutionary biology.” The senate of the University of Guelph found that his work has “profoundly influenced an entire generation of ecologists, environmental scientists and applied mathematicians on how to solve important practical problems and make the world a better place.”

<http://news.ucsc.edu/2014/01/mangel-honorary-degree.html>

AND

According to Professor and *AIFRB Member Marc Mangel*, one of the great challenges of this century is to answer the question: How do we bring first class basic science to bear on important applied...

[www.youtube.com/watch?v=4V7qw5AVobg](http://www.youtube.com/watch?v=4V7qw5AVobg)

AND

Mangel also worked on section three of the book, with another *member of AIFRB Ray Hilborn* (among other authors): Foundations of Fisheries’ Science When can Marine Reserves Improve Fisheries Management? (Ray Hilborn, Kevin Stokes, Jean-Jacques Maguire, Tony Smith, Louis W. Botsford, Marc Mangel, José Orensanz, Ana Parma, Jake Rice, Johann Bell, Kevern L. Cochrane, Serge Garcia, Stephen J. Hall, G. P. Kirkwood, Keith Sainsbury, Gunnar Stefansson, and Carl Walters) <http://fisheries.org/shop/55072c>

## **More AIFRB Videos, *Bernie Inspired***

Some interesting video is online from the Bevan Symposium on reauthorizing the Magnuson Act:

Speaker – Rick Methot

[www.youtube.com/watch?v=Pccc08IYo7A&list=PLnaBXrPodS4d4\\_iq4wKM7QOXv2pe9wbBS&index=10](http://www.youtube.com/watch?v=Pccc08IYo7A&list=PLnaBXrPodS4d4_iq4wKM7QOXv2pe9wbBS&index=10)

Speaker – Steve Cadrin

[www.youtube.com/watch?v=G9v2Q4-OBhY&list=PLnaBXrPodS4d4\\_iq4wKM7QOXv2pe9wbBS](http://www.youtube.com/watch?v=G9v2Q4-OBhY&list=PLnaBXrPodS4d4_iq4wKM7QOXv2pe9wbBS)

# Founding Fellow J.A.R. Hamilton

Compiled and written by Bernie Skud

James Arthur Roy Hamilton was born in Framlingham, England, on May 1, 1919, and as an infant moved with his family to New Westminster, B.C., Canada. After earning his B.A. and M.A. degrees at the University of British Columbia in 1944 and 1947, respectively, he was awarded his Ph.D. degree at the University of Washington in 1955. His dissertation was entitled "An Investigation of the Effect of Baker Dam on Downstream Migrant Salmon."

Roy worked for the International Pacific Salmon Fisheries Commission, a joint Canadian and United States organization that was responsible for the restoration of sockeye salmon in the Fraser River, from 1943 to 1956, starting as a Biologist and, eventually, as Senior Biologist and Assistant Administrator for Research. During that period, he conducted research on the ecology of salmon, age analysis, and the effect of dams on fish.

In 1956, Dr. Hamilton accepted the position of Environmental Coordinator with the Pacific Power and Light Company in Portland, Oregon. He conducted research on fish and dam problems, particularly the ecology of seaward migration of young salmon. During this period, he held concurrent positions as consultants for the U.S. Army Corps of Engineers and the Washington Department of Fisheries. Roy and the late George Eicher (another AIFRB Fellow), who was hired by Portland General Electric in the same year, were among the first (if not the first) fishery biologists hired by electric power companies.

In addition to being a Founding Fellow of the AIFRB, Dr. Hamilton was the Chair of the Ethics Committee in 1956, the first District Director of the Southwest Washington and Oregon District (1962-1965), and AIFRB President in 1971-1972. The inaugural issue of *Briefs* was published in February 1972, and in the "Message from the President," he said that *Briefs* was intended to be "a dignified communication designed to reflect the posture and vitality of the Institute." In an August 1980 *Briefs* article, he wrote about the need to "direct more attention to the needs of the inland fisheries biologist."

Roy's other activities included Committee Member, Second Governors' Conference on Salmon; British Columbia Academy of Sciences; American Fisheries Society; Pacific Fishery Biologists (a Past President); and the American Society of Limnology and Oceanography.

Roy retired to Comox, B.C., Canada, in 1999. During his retirement years, he was an active member of his church, charitable organizations, and business associations. He died in Comox on May 29, 2009, at the age of 90.

# Bernie's Last BRIEFS Communication

Forwarded message

From: <[skud@whidbey.net](mailto:skud@whidbey.net)>

Date: Fri, Jan 24, 2014 at 1:40 PM

Subject: Fwd: Star-Oddi newsletter, issue 1, 2014

To: Sarah Fox <[sgfeditor@gmail.com](mailto:sgfeditor@gmail.com)>

Sarah:

*Scroll down to story about herring and killer whale sounds.*

*Would be of interest in Briefs — when fill-in is needed,*

Bernie

## Herring Unmoved by Rolling Stones

December 10, 2013 09:28 Updated: January 30, 2014 20:24

Herring in Kolgrafafjörður, West Iceland, were unmoved when researchers attempted to scare them out of the fjord by playing 'Brown Sugar' and 'Satisfaction' by The Rolling Stones.



Archive photo: Páll Stefánsson/Iceland Review.

<http://icelandreview.com/news/2013/12/10/herring-unmoved-rolling-stones>

*“It’s time to say goodbye,  
but I think goodbyes are sad and I’d much rather say hello.  
Hello to a new adventure.”  
Ernie Harwell*

**Bernie, here’s to your new adventure!  
You will be missed!  
AIFRB**

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