MEMORANDUM

TO:

Council, SSC and AP Members

FROM:

Jim H. Branson

Executive Director

DATE:

December 3, /1980

SUBJECT: Appointment of new Advisory Panel and SSC

ACTION REQUIRED

Advisory Panel and Scientific and Statistical Appoint new Committee.

BACKGROUND

The membership terms of both committees have expired. Members were asked if they cared to serve another term and a call for nominations was announced.

The SSC will present recommendations to the Council at this meeting.

Attached is a list of current Advisors who expressed a desire to serve another term. Also attached is a list of seventeen nominees received from the public.

At the October, 1980 meeting, the Council agreed to grant the Chairman authority to fill interim AP vacancies by appointment with the stipulation that all appointments be ratified by the Council. The Chairman will fill these vacancies from nominees on file from the current call plus other names received during the current two-year term.

CURRENT ADVISORY PANEL MEMBERS WILLING TO SERVE ANOTHER TERM

Robert Alverson Robert Blake Bud Boddy Alvin Burch Truman Emberg Jessie Foster Sigfryd Jaeger Joseph Kurtz Weaver Ivanoff Charles Jensen Eric Jordan Rick Lauber Ray Lewis Sharon Macklin Dan O'Hara Ken Olsen Alan Otness Don Rawlinson Jack Phillips Tony Vaska Jeff Stephan

NEW NOMINATIONS TO ADVISORY PANEL

Forbes G. Baker P.O. Box 813 Sitka, Ak 99835

Patricia Barker Box 556 Bethel, Ak 99559

Larry Cotter C/O ILWU 222 Willoughby Ave. Juneau, Ak 99801

Paula Easley Resource Development 444 W. 7th Anchorage, Ak 99501

Arthur F Ballagher, Jr. 1220 S.W. 66th Ave. Apt. #2234 Portland, Ore. 97225

Richard J. Goldsmith Bldg. C-3, Room 218 Fishermen's Terminal Seattle, Wa 98119

Steven Haavig P.O. Box 1186 Juneau, Ak 99802

Kristy Long Univ. of Alaska S.E. District 7th & Madison Ketchikan, Ak 99901

Rosalie Moore C/O Alan Otness Box 317 Petersburg, Ak 99833 Charles Parsons Box 796 Homer, Ak 99603

Bruce Rettig
Dept. of Agricultural Economics
Oregon State Univ.
Corvallis, Ore. 97330

Roy A. Rickey 1612 Glacier Ave. Juneau, Ak 99801

Marjorie Schmiege 1800 Evergreen Ave. Juneau, Ak 99801

Lewis Schnaper 205 N. Franklin Street Juneau, Ak 99801

James L. Strichartz 1515 Dexter Ave. North Suite 300 Seattle, Wa 98109

Konrad Uri 3419-16th Ave. West Seattle, Wa 98119

Marliyn Wilson Box 479 Sitka, Ak 99835

AGENDA ITEM C-1 ADVISORY PANEL APPOINTMENTS

The Advisory Panel member nominating committee met Wednesday to consider applicants for the AP for the next two year term, which will begin at the next Council meeting, January 5-9 in Juneau.

In doing so, the committee used those members of the present AP who have indicated they are willing to serve another term and a slate of 18 applicants who submitted applications prior to October 15, 1980.

The committee recommends the appointment of the following people.

Robert Alverson Robert Blake A. W. Boddy Al Burch Larry Cotter Paula Easley Truman Emberg Jessie Foster Richard Goldsmith Weaver Ivanoff Eric Jordan Joseph Kurtz Rick Lauber Ray Lewis Rosalie Moore Dan O'Hara Ken Olsen Alan Otness Charles Parsons Jack Phillips Don Rawlinson Lewis Schnaper Jeff Stephan Konrad Uri Tony Vaska

At the September, 1980 meeting, the Council adopted a policy to allow the Chairman to appoint members to fill vacancies to the Advisory Panel, with confirmation from the Council, from a list derived from nominations received from the public.

The following people will remain on the list for future appointments.

Forbes G. Baker P.O. Box 813 Sitka, AK 99835

Patricia Barker Box 556 Bethel, AK 99559 Arthur F. Ballagher, Jr. 1220 S.W. 66th Ave., Apt. #2234 Portland, OR 97225

Steven Haavig P.O. Box 1186 Juneau, AK 99802

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The Advisory facel member contration compilies and Medarsday to consider applicants for the AP for the new two year leve, which will begin at the new Commit meeting, issuary 5-9 in Janese.

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> Steven Kanvig 2.0. Ben 1185 Janober, att 508.2

Kristy Long Univ. of Alaska S.E. District 7th & Madison Ketchikan, AK 99901

Bruce Rettig
Dept. of Agricultural Economics
Oregon State University
Corvallis, OR 97330

Roy A. Rickey 1612 Glacier Ave. Juneau, AK 99801

Margorie Schmiege 1800 Evergreen Ave. Juneau, AK 99801 Keith Specking Office of the Governor Pouch V Juneau, AK

James L. Strichartz 1515 Dexter Ave. North Suite 300 Seattle, WA 98109

Marilyn Wilson Box 479 Sitka, AK 99835

Applicants for membership on the AP received since the previous deadline of October 15, 1980 will be retained and used to fill vacancies that may occur over the next two year term of the Advisory Panel. Applicants who applied and were <u>not</u> selected in the current round of appointments will be kept on the current list for possible appointment to vacancies during the next two years.

In making these recommendations, the committee wishes to recognize the hard work of the AP over the past two years and the invaluable assistance they have been in the Council process. To those members leaving the Panel, our best wishes and heartfelt thanks.

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Bruce Reatig Dept. of Ageicultural Economics Occapon State University Correllis, OR 9/330

> Roy A. Rickey 1612 Sistiac Ave.: Jaceau, Sk. 19801

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James L. Strichartz 1515 Rester Ave. North Sette 200 Scattle, WA 98109

> Marilys Wilson Fox 479 Litto, An 29835

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In auching these barrammendations, the completes wishes to recognize the barrier time transfer as been been of the AP over the past two years and the invalenths assistante they have been in the Council process. To those members losying the Panel, our bown sinher and beartfelt thanks.

jan.

UNIVERSITY OF ALASKA

1790 Evergreen Ave. Juneau, AK 99801

25 November 1980

Steve Pennoyer, Chairman Scientific and Statistical Committee North Pacific Fisheries Management Council c/o Ala ska Department of Fish and Game Subport Building Juneau, Alaska 99801

Dear Steve:

I am submitting my resignation from the Scientific and Statistical Committee to be effective as of the close of the December 8, 1980 meeting. As you know, my reasons are simply that time is not available to devote to the SSC and sub-committee meetings and review of the materials we receive for analysis and comment. In filling my position I have two suggestions to make. In the interest of a desireable disciplinary belance and to assure meeting the full intent of the 1976 Act, my replacement should be another economist or social scientist. Secondly, unless the Committee and the Council wish to limit recruitment only to those federal and state agencies prepared to compensate their employees for time devoted to their duties as members, some form of at least partial compensation should be provided by the Council. On State advisory boards on which I am serving or have served, for example, honorariums are paid (in addition to travel and other expenses) ranging from \$ 60 to \$ 400 per day. SSC members are expected to perform functions which exceed the purely advisory and approach those of professional staff.

It has been a personal and professional privilege and pleasure to serve with you and other memebras of the SSC since its inception in October 1986. It is always rewarding to be part of a movement for reform and expansion of ways of managing resources and I have gained much from this experience for which I am grateful. To the extent that this is possible, I hope you will keep me informed on future developments and keep my name on the Council's mailing list. My regular management will continue to include fisheries, so this resignation does not mean a break in our continuing relations management.

Sidcerely yours,

George W Rogers

CORVALLIS, OR.

PRINCE RUPERT, B.C.

INTERNATIONAL PACIFIC HALIBUT COMMISSION

ESTABLISHED BY A CONVENTION BETWEEN CANADA
AND THE UNITED STATES OF AMERICA

October 22, 1980

Short S

P.O. BOX 5009 UNIVERSITY STATION SEATTLE, WA 98105

> TELEPHONE (206) 634-1838

Mr. Jim Branson North Pacific Fishery Management Council P.O. Box 3136 DT Anchorage, AK 99510

Dear Jim:

In a recent telephone conversation between Clarence Patzke and Steve Hoag of our staff, Clarence suggested that I write a letter to you expressing our desire to have membership on the S.S.C. The members of our Commission strongly support a close working relatioship with the council and are anxious to have one of our staff on the S.S.C.

We fully realize that work and responsibility in areas other than those affecting halibut management is the major concern of the S.S.C., however, we are willing to fully participate in all S.S.C. matters if desired and have considerable resources which can be applied to S.S.C. problems. We have excellent research facilities at the Commission and we have one of the strongest quantitative groups of any fisheries management agency particularly with the recent addition of Dr. Terrance Quinn and Dr. Richard Deriso. We would offer the use of such resources when needed.

It is the Commission's opinion that I should be the official S.S.C. member. If I am accepted by the council I would propose Steve Hoag as the alternative. I would hope however, that Steve would be able to continue his work with the plan development team.

Sincerely,

Donald A. McCaughran Director

cc: Steven Pennoyer
Donald H. Rosenberg

UNIVERSITY OF WASHINGTON SEATTLE, WASHINGTON 98105

Institute for Marine Studies, HA-35 3731 University Way N.E.

MEMO

Steve_Pennover, Chairman

Scientific and Statistical Committee, NPFMC

From:

Ed Miles

Subject:

Consideration of Dr. Bruce Rettig as a Member of the SSC

Date:

October 9, 1980

I have only today learned that Bruce Rettig (Associate Professor of Economics in the Department of Agricultural Economics, Oregon State University) he completed from years of service with the SSC of the Pacific Council. In response to a question from me, Bruce indicated that he would have no objection to being considered for membership on the North Pacific SSC. I would strongly urge consideration of his candidacy because I have great respect for Bruce's expertise and breadth of interests and experience. I have also asked Bruce to send you directly a copy of his C. V.

Jim Branson cc:

10-15-80 X erot uj lover letter for Jun Brennan

Jun would your please circulate factings tout 550 members

50.

Department of Agricultural and Resource Economics



Corvallis, Oregon 97331

October 9, 1980

Dr. Steven Pennoyer Alaska Dept. of Fish & Game Subport Building Juneau, AK 99801

Dear Steve:

Ed Miles has suggested that I send you a resume to assist you in considering me for a seat on the NPFMC SSC. I have recently completed two terms on the PFMC SSC and decided not to continue there. My decision was based partly on my perception that the Pacific council should have some turnover on its SSC and partly on my desire to move on to some new and different public service activities. Ed's suggestion reinforced my long-term interest in Alaskan fisheries.

I met some of your committee members at the joint SSC meeting in Seattle this winter and know a few members from other associations. Don Bevan, who has served on the PFMC SSC with me for four years can probably give you the best evaluation of the role I might play on the NPFMC SSC, if selected. Finally, I apologize for the length of the enclosed document. It was prepared for another purpose and I did not have time to condense it.

Sincerely yours,

R. Bruce Rettig

Associate Professor

ds

enclosure

Name R. BRUCE RETTIG

Department Ag. and Resource Economics

College/School/Div. Agriculture

A. Education	(Colleges and universities attended or equivalent professional study)		
Dates (vrs)	Name of Institution	Degree Earned	Major Field(s)
1958-1962	University of Montana	B.A.	Economics
1962-1964	Northwestern University	M.A.	Economics
1964-1968	University of Washington	Ph.D.	Economics

<u>B.</u>	Professional	Employment (List ch	ronologically each academic i	rank or position held
	Dates (vrs)	Rank or Position	Institution or Employer -	Principal Duties
	1968-1973	Asst. Professor	Oregon State University	Research, teaching
	1973-present	Assoc. Professor	Oregon State University	Research, teaching
	1977-1978	Visiting Associate Professor	University of Washington	Research, teaching

C. Other Professional Experience and Service (Include sabbatical programs, travel abroad, offices in professional societies, public service activities, etc.)

(see attached documentation)

D. Special Honors and Recognitions (for teaching, scholarship or service)

(see attached documentation)

III. PUBLIC SERVICE (Percent of total effort: 35)

Beginning with 1976, Dr. Bruce Rettig has been increasingly called upon to provide public service at the regional and national levels. This demand for his services to the public sector reflect the increasing stature which he has attained over time as a resource economist.

Of his various public service assignments, three deserve particular attention. They will be discussed in turn.

1. Scientific and Statistical Committee for the Pacific Fishery Management Council

Dr. Rettig has served on this committee from November 1976 to date and was appointed to his second the year term on the committee in October 1978.

The Fishery Conservation and Management Act of 1976 totally restructured the management of commercial and recreational fisheries in the water adjacent to the United States. One of the most important aspects of that act was creation of eight regional fishery management councils. The principal responsibility of these councils is to provide the nucleus of a national fisheries conservation and management program through the systematic development of fishery management plans.

Each council maintains a Scientific and Statistical Committee (SSC) to assist in the development, collection, and evaluation of such statistical, biological, economic, social, and other scientific information as is relevant to such council's development or amendment of any fishery management plan. The SSC for the Pacific Fishery Management Council (PFMC) consists of the principal research officer (or his designate) from the states of Washington, Oregon, Idaho, and California, the directors of the Northwest and Alaska Fisheries Center and the Southwest Fisheries Center of the National Marine Fisheries Service, and five at-large scientists. Since the creation of the PFMC, these five have been an internationally famous fishery consultant from southern California, the Associate Dean of Fisheries for the University of Washington, a professor of fisheries at the University of Washington who was technical advisor to the federal court administering Indian fishing decisions, a Scattle lawyer, and Dr. Rettig. Dr. Rettig is the only economist and one of two nonbiologists on this blue-ribbon, interdisciplinary committee.

Dr. Rettig has participated extensively in the activities of the council since its initiation. Several types of these activities are identified below with examples given for each.

- A. Review of fishery management plans. Dr. Rettig's major contributions are identified by plan as follows:
- (a) Commercial and Recreational Salmon Fisheries Off the Coasts of Washington, Oregon, and California. A plan was implemented on an emergency basis in April 1977. A replacement plan went into effect in March 1978; it

was amended in 1979 and a second amendment was being developed at the time this document was prepared. A more comprehensive plan is under development and is expected to be implemented in 1981. When the planning process began for salmon, no economist was involved in plan development and, not surprisingly, the first plan draft was deficient in economic data and analysis. In addition to critical comments, Dr. Rettig organized a workshop of experts on salmon economics which developed new material for the first salmon management plan. At the present time, an economist has been assigned to the salmon management plan development team and Dr. Rettig supplements his participation in SSC review of salmon plans with one-on-one discussions with that economist of issues needing analysis in the plans.

- (b) Northern Anchovy Fishery Management Plan. This plan was implemented in the summer of 1978. The economist who worked on this plan was identified and approved for the project by Dr. Rettig. In the process of developing the management plan, there is considerable exchange between Dr. Rettig and the project economist on questions relating to methodological issues in fishery planning. Dr. Rettig must approve the economic portions of the fishery management plans.
- (c) Fishery Management Plan for Jack Mackerel. This plan is expected to be implemented in Winter of 1980. Dr. Rettig's responsibilities here are similar to those described in "(b) Northern Anchovy Fishery Management Plan" above.
- (d) <u>Fishery Management Plan for Squid</u>. This plan has progressed through its first review. Dr. Rettig's responsibilities here are similar to those described immediately above.
- (e) Pacific Coast Groundfish Plan. This plan is expected to be implemented in 1980. It has gone through numerous drafts and has been in preparation for almost three years. There are several complex features of this plan including the existence of a large foreign fishery (Russians, Poles, and Mexicans), the existence of a joint venture fishery (U.S. boats delivering to Russian processors), and need to establish a new procedure to account for conservation while not unduly hindering domestic industry. Dr. Rettig participated in a subcommittee of the SSC to review all aspects of this plan and in another subcommittee developing a sophisticated definition of optimum yield (the backbone to justification for regulations as well as the allowable harvesting rate). He also works with the planning team's economist on economic sections of the groundfish plan.
- (f) Fishery Management Plan for the Pink Shrimp Fishery Off Washington, Oregon, and California. Dr. Rettig was responsible for reviewing the plan with particular attention to economics. Particular assistance to the economist on this planning team dealt with the appropriate evaluation of limited entry, especially given the new Oregon law limiting the number of licenses to be issued for shrimping.
- (g) Fishery Management Plan for Billfish and Oceanic Sharks.
 One draft was reviewed. Dr. Rettig assessed the need for contract research and expansion of the planning team to include a team economist, both recommended and assisted in the selection of the appropriate person.

- (h) Fishery Management Plan for the Dungeness Crab Fishery Off
 Washington, Oregon, and California. Dr. Rettig participated in a subcommittee
 to evaluate this plan and reviewed two drafts before work on this plan
 was halted.
- (i) Environmental Analysis: Proposed Coral Harvesting. After reviewing a draft document from the Bureau of Land Management, Dr. Rettig and others recommended that the PFMC not develop such a plan.
- (j) First Draft of Fishery Management Plan for Herring. The first draft of this plan is due in 1980. Dr. Rettig developed guidelines on economic research needed and identified the economist to work on a planning team.
- B. Assess the need for fishery management plans and recommend personnel for planning teams. The economists chosen to participate on fishery management plan development teams were all identified by Dr. Rettig and, in certain cases, he convinced them to accept that responsibility.
- C. Develop priorities for research conducted using PFMC programmatic funds and assess the research programs of the National Marine Fisheries Service. Dr. Rettig assisted in developing several requests for proposals and evaluation of bids for contracts to conduct socioeconomic data collection and/or analysis. He also worked closely with council staff on award of three socioeconomic contracts, using "sole source" contracts.
- D. Definition of operational terms to be used in fishery management plans. Most of this activity took place during the first year of activity, although Dr. Rettig participated in a special subcommittee in 1979 aimed at creating a more sophisticated, scientific approach to optimum yield.
- E. Advice to the council on reaction to proposed regulations by the National Marine Fisheries Service. This activity was most demanding during the first year of operation when so many new regulations were being developed. The major recent activity has been a critical evaluation of regulations growing out of amendments of the Fishery Conservation and Management Act covering the processing sector and joint ventures.
- F. Chairman of an ad hoc committee on economic data. Dr. Rettig brought together economists associated with the PFMC a year after planning began to define common approaches. In 1977-78, Dr. Rettig followed up by assisting in a clearinghouse effort to reduce the number of interviewers seeking industry data. In 1978-79, the National Marine Fisheries Service released a major contract to identify socioeconomic data priorities and asked Dr. Rettig to reconstitute his group of economists and add other social scientists. That group met in February 1979; the consultant's report is due in 1980.

2. <u>Committee on Aquaculture, Board of Agriculture and Natural Resources, National Research Council</u>

From November 1976 through January 1980, Dr. Rettig served as a member of the Committee on Aquaculture, Board of Agriculture and Natural Resources,

National Research Council. During part of this time, he also served as the chairman of the Economic Panel for the committee.

As noted in the letter by C. O. McCorkle, Jr., the aquaculture committee's report "is considered to be the most comprehensive and useful document on the subject to date." The chairman of that committee further noted that a Senate committee printed the complete and the committee print. In addition to Dr. Rettig's membership on the committee as its only economist, he was asked to chair an economics panel for the committee and draft the economics chapter for the report.

3. National Conference on Limited Entry to Fisheries

While on sabbatic leave at the Institute for Marine Studies (IMS) at the University of Washington, Dr. Rettig assumed principal responsibility for a national conference on limited entry as a tool in fisheries management. This conference was held in Denver, Colorado, July 17-19, 1978. Dr. Rettig and the Head of IMS, Professor Donald McKernan, selected a distinguished national steering committee and worked with that committee to identify authors of background papers. Dr. Rettig enlisted those authors in writing their background combine and handled logistics for a meeting in May of 30 scientists to discuss early drafts of papers. He also handled logistics for a conference in Denver which drew over 200 people from government, the fishing industry, and academia. Both workshop and conference have been widely praised by participants (see letter by Lee Anderson which is attached -- page 33) and in the press. Written communications indicate that the printed papers and proceedings are being eagerly awaited. At least one seminar has been scheduled for 1980 using that volume as its text. Dr. Rettig is editor of this volume.

IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ENDEAVOR (Percent of total effort: 55)

1. Past and Current Research Activities

Dr. Rettig's research program is aimed at improving public policy dealing with natural resources. To achieve this goal, he has identified needed data and analysis, developed natural resource planning methodologies, and has analyzed public policies in the following subject areas:

A. Ocean Fishery Management

While Dr. Rettig has had some level of research commitment to issues of ocean fishery management since he joined the Oregon State University faculty, his major involvement began early in 1975 when it became clear that Congress was going to extend coastal jurisdiction over fishery resources seaward to 200 miles.

This research has been both applied and fundamental in nature. The applied research has resulted in advice to state and federal agency personnel about ways to fill information gaps and specific consequences to be expected from alternative management policies. This thrust resulted in publications listed in "IV. RESEARCH SCHOLARSHIP, AND CREATIVE ENDEAVOR, 2. Publications" [specifically, B. 5, 7; D. 1; G. 1, 3, 4, 5, 6; H. 1], the activities described in "III. PUBLIC SERVICE," and those described in "VII. GENERAL INFORMATION, 1. Evidence of Regional and National Reputation" [specifically, A, B, C, D].

Among the more basic research results, new methodologies have been developed for estimating the extent to which domestic fisheries will harvest available resources and for analysis and display of the optimum yield to be taken in each fishery. Two doctoral theses, one complete and the improgress, deal with these issues. Two unpublished papers (IV. 2. Publications [G. 3, 5] and one published paper (IV. 2. Publications [B. 7]) deal with these issues with other publications to follow completion of the theses. Both methodologies are fundamental to the new planning system for ocean fisheries and are expected to help alleviate severe difficulties in implementing extended fishery jurisdiction.

Dr. Rettig's research program is shifting to examine the interrelationships between ocean salmon management, salmon "ranching," and public policies toward "wild" fish. The underlying issues include current management problems which have been discussed extensively with staff of the Oregon Department of Fish and Wildlife, as well as highly basic issues related to the economic value of genetic pools.

B. Water Resources

Working as a research assistant at the University of Washington, Dr. Rettig developed forecasts for water-intensive industries and aided in translating that work into an analysis of water diversion from Washington to the Southwest. Soon after coming to Oregon State University, parts of this work were drawn upon in a jointly authored analysis of natural water policy (see IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ENDEAVOR, 2. Publications [specifically, F. 1]). In 1979, Dr. Rettig has synthesized some of those earlier analyses with his fishery economics program to aid the Water Resources Council in new procedures for analyzing fishery resources.

C. Coastal Zone Management

From 1970 to 1975, Dr. Rettig's major research activity lay in developing models to synthesize economic and ecological consequences of coastal zone development. The basic methodology was developed in a study of a proposed aluminum plant in Clatsop County (see IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ENDEAVOR, 2. Publications [specifically, B. 3, C. 2, D. 2, and G. 2]) and was later used in an analysis of development options in Tillamook County. Dr. Rettig also assisted in a study of coastal campgrounds, participated in a conference in coastal development (see IV. RESEARCH, Son ARSHIP, AND CREATIVE ENDEAVOR, 2. Publications [specifically, B. 4]), helped extend an OSU humanities program on community development to Newport, and developed counsel for Janet McLennan (Governor Straub's natural resources aide) on the role of Oregon in multi-state marine programs. Other aspects of coastal zone management arose in a brief research paper with Emery Castle on land use planning (see IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ENDEAVOR, 2. Publications [specifically]

2. Publications

In the following list of publications, Dr. Rettig is considered the senior author, unless another author is identified with an asterisk (*). Publications of an interdisciplinary nature are identified with a double asterisk (**)

A. Books (edited)

Dr. Rettig has edited a book on Limited Entry as a Tool in Fishery

Management. The book grows out of a conference discussed under "III. PUBLIC SERVICE." All editing work on this book was concluded in December of 1979. The manuscript (approximately 1,600 typewritten pages in length) has gone to the publisher (U of Washington Sea Grant) and has been accepted for publication. Publication of the book is expected by May 1980. Orders for the book have already been placed by professionals at high marine resource policy levels both in the United States and overseas.

B. Book Chapters

1. "Multiple Use Relationships in Estuaries," <u>Water Studies in Oregon</u>, seminar conducted by Water Resources Research Institute, Oregon State University, Fall 1969, pp. 87-93.

- 2. "Multiple Objectives for Marine Resource Management," in Ocean Fishery Management: Discussions and Research, NOAA Technical Report NMFS CIRC-371, Seattle, Washington, April 1973, pp. 23-27.
- 3. "Economic Impact of Outdoor Recreation: What Have We Learned?" with H. H. Stoevener* and S. D. Reiling, in <u>Water and Community Development</u>, Donald R. Field, James C. Barron, and Burl F. Long (eds.), Ann Arbor Science, 1974, pp, 235, 255.
- 4. "Anadromous Species and Extended Jurisdiction," with Richard S. Johnston in Economic Impacts of Extended Fisheries Jurisdiction, Lee G. Anderson (ed.), Ann Arbor Science, 1977, pp. 133-137.
- 5. "Balancing the Coastal Zone Interests: Comment," The Future Management of the Oregon Coast, Oregon State University Sea Grant College Program Publication No. ORESU-W-74-001, 1974, pp. 106-109.
- 6. "The Economics of Salmon Aquaculture," in <u>Proceedings: Salmon Aquaculture Seminar</u>, Cooperative Extension Service, College of Agriculture, Washington State University, Pullman, Washington, October 4, 1977, pp. 29-35.
- 7. **"Managing Fisheries for Optimum Yield: The Need for Integrated Research in Physical, Life, and Social Sciences," in <u>Multidisciplinary</u> Research Related to the Atmospheric Sciences, Michael H. Glantz, et. al., (ed.), National Center for Atmospheric Research, Boulder, Colorado, June 1978, pp. 50-63.
- 8. "Summary of Workshop Discussion," in <u>Limited Entry as a Fishery Management Tool</u>, R. B. Rettig and J. J. C. Ginter (eds.), University of Washington Sca Grant. In press, chapter was 19 pages typed.
- 9. "Limited Entry Revisited," with J. J. C. Ginter, in <u>Limited</u>
 Entry as a Fishery Management Tool, R. B. Rettig and J. J. C. Ginter (eds.),
 University of Washington Sea Grant. In press, chapter was 30 pages typed.
- 10. "The Economics of Open Access Resources: Ocean Fisheries," in Conflict in Use of Ocean Resources, Susan Hanna, Kwang Im, and Larry Rogers (eds.), Oregon State University Sea Grant Report. In press.

C. Refereed Journal Articles

- 1. "Land Use Conflicts and Their Resolution," with Emery N. Castle*, Journal of Soil and Water Conservation, Volume 27, Number 5 (September-October 1972), pp. 207-210.
- 2. "Some Economic Aspects of Conflicts Over Land Use in the Coastal Zone," Coastal Zone Management Journal, Volume 1, Number 3 (1974), pp. 291-303.

D. Other Refereed Publications

1. "The Commercial Seafood Industry of Oregon--A Comparison with Other Regions of the United States," with Kenneth J. Roberts, Special

Report 331, July 1971, OSU Sea Grant, Agricultural Experiment Station, Oregon State University, Corvallis, 11 pages.

- 2. "Linkages Between the Economy and the Environment: An Analysis of Economic Growth in Clatsop County, Oregon" with Kenneth J. Roberts*, Oregon State University Sea Grant College Program Publication No. ORESU-T-74-005, May 1975, 32 pages.
- 3. "A Citizen's Guide to Employment, Inflation, Income, and the Oregon Economy," with D. Darr, L. Eisgruber, J. Farrell, G. Nelson, and G. Sorenson, Special Report 450, February 1976, Agricultural Experiment Station and Extension Service, Oregon State University, Corvallis, 23 pages.

E. Reviews

Book Review: Anderson, Lee G., <u>The Economics of Fisheries Management</u>, in <u>American Journal of Agricultural Economics</u>. Volume 60, Number 3 (1978), p. 562.

F. Other Publications

- 1. "Proposed New Procedures for Evaluating Water and Land Resources: Some Comments from an Academic Viewpoint," State of Washington Water Research Center, Pullman, Washington, June 1971, with Walter R. Butcher* and Gardner M. Brown, 15 pages.
- 2. **Committee on Aquaculture, Board on Agriculture and Renewable Resources, Commission on Natural Resources, National Research Council, Aquaculture in the United States: Constraints and Opportunities, National Academy of Sciences, 1978, 123 pages. Also available as a committee report of the Senate Committee on Agriculture, Nutrition, and Forestry. (Principal author cannot be identified in this publication.)

G. Papers Read (but not formally published)

- 1. "Economic Considerations in Fish and Wildlife Resource Decision-Making Today," presented to American Fisheries Society, Oregon Chapter, January 26, 1975.
- 2. "Relevancy of Input-Output and Related Models to Resource Allocation Problems and Policies--The Oregon Experience," presented with H. H. Stoevener to the Economic Models for Management of Natural Resources Workshop held at Big Sky, Montana, June 10, 1974.
- 3. "Problems of Implementing Public Law 94-265: Findings of Capacity and Optimum Yield," presented to the Western Association for the Valuation of Ecosystems at Lake Arrowhead, September 15, 1976.
- 4. **"The Role of the Technical Advisor in Managing the Extended Jurisdiction Range of Ocean Fisheries," presented at the meeting of the American Fisheries Society, Oregon Chapter at Kahneeta, Oregon, January 28, 1977.

- 5. "The Application of Resource Economics in the Development of Management Plans," presented at a California Department of Fish and Game Biologists Training Meeting held in Fresno, California, on May 20, 1977.
- 6. "Comments" on paper entitled, "The Economics of Fisheries Regulation: Lessons to be learned from Existing Programs," presented at a symposium on policies for economic rationalization of commercial fisheries held at Powell River, British Columbia, August 23-29, 1978.

H. Publications in Process

- 1. "Estimating Direct and Indirect Environmental Impacts with Small Region Input-Output Models," with B. A. Weber*, in Small Area Input-Output Models: Some Experiments and Extensions, H. H. Stoevener (ed.). Publication being negotiated with professional publishers for release late in 1980.
- 2. "The Economics of Long-Run Decision Making by Fishermen: The Oregon Otter Trawl Fishery," with S. F. Herrick, Jr.* To be submitted to the Journal of the Fisheries Research Board of Canada.

3. Thesis and Dissertation Research Supervised

A. Primary Responsibility for Supervision (as major professor)

	Name	Degree	<u>Title</u>	Year of Completion
1.	Kenneth J. Roberts	Ph.D.	Economic and Environmental Trade-offs in an Estuarine Based Economy: A Modified Input-Output Analysis of Clatsop County, Oregon	1971
2.	Samuel F. Herrick	Ph.D.	Investigation of Supply Response in the Oregon Otter Trawl Fishery	1979
3.	Christopher N. Carter	Ph.D.	Variations in Capacity for the Oregon Trawl Fishery	in progress
4.	Nik M. Raja Abdullah	M.S.	Economic Analysis of Public Policies Affecting the Sablefish Fishery in the Northeastern Pacific Ocean	in progress
5.	Kevin Walker	M.S.	Economics of Public Salmon Hatchery Operation in the Pacific Northwest	in progress

B. Secondary Responsibility for Supervision (as member of student's advisory Committee

	Name	Degree	Year of Completion
1.	David Klemperer	Ph.D.	1971
2.	Michel Thevenon	Ph.D.	1971
3.	Sandra S. Batie	Ph.D.	1972
4.	Jose E. Fernandez	Ph.D.	1972
5.	Kenneth N. Johnson	Ph.D.	1972
6.	Robert N. Shulstad	Ph.D.	1973
7.	J. William Currie	Ph.D.	1974
8.	Basil Copeland	M.S.	1975
9.	D. Kenneth Ford	M.S.	1975
10.	Gary R. Vieth	Ph.D.	1975
11.	Stephen D. Reiling	Ph.D.	1976
13.	Takin Coboffeys	Ph.D.	1976
13.	Stanley D. Wang	Ph.D.	1976
14.	R. Thomas Schotzko	Ph.D.	1977 ⁻
15.	Marut Muangkoe	M.S.	1978
16.	Jerachone Sriswasdilek	Ph.D.	1979
.17.	Garry Stephenson	MAIS	-1979-1980
	Jerry Clark	Ph.D.	in progress
	Mary Lewis	MAIS	in progress
	Susan Hanna 🦯	Ph.D.	in progress
	Grant Thomphson	M.S.	in progress
	John J. Baker	M.S.	in progress
	Jim Richardson	. M.S.	in-progress-1985

	4. Research Grants and Contracts	
Granting Agency	Title (dates)	Approximate Amount per Year
A. Principal Inv	restigator	
Sea Grant	Marine EconomicsEducation and Training 1968-1974	\$ 8,000
Sea Grant	Economics of Coastal Areas, 1968-75	\$40,000
Sea Grant	Economic Analysis of Extended Jurisdiction by the U.S. over Coastal Resources: Fisheries from Washington to California, 1975-1977	\$69,000
Sea Grant	Refining Calculations in Fishery Management Plans: Capacity and Optimum Yield, 1977-1979	\$64,000
Sea Grant	Economic Analysis of the Interrelationships Between Wild and Harchery Salmon	\$75,000

- O. Member, Scientific and Statistical Committee for the Pacific Fishery Management Council, November 1976 to date.
- P. Member, Committee on Aquaculture for National Research Council, 1976-1978.

2. Evidence of Interdisciplinary Activity

Practically every assignment described under "1. Evidence of Regional and National Reputation" was carried out in an interdisciplinary setting. In some instances, such as membership on the Scientific and Statistical Committee for the Pacific Fishery Management Council, Dr. Rettig is the only economist and social scientist.

3. Evidence of Continued Professional Improvement

- A. Attendance at Western Agricultural Economics Association annual meeting, Corvallis, Oregon, 1969.
- B. Attendance at American Assembly on "Uses of the Seas," Newport, Oregon, May 8-11, 1969.
- C. Attendance at Land Use Planning Workshop, Seattle, Washington, October 1971.
- D. Attendance at National Discussion forum on Marine Fisheries Resources, Portland, December 13-15, 1971.
- E. Attendance at Fisheries Resource Management Seminar, Portland, Oregon, January 23, 1972.
- F. Attendance at American Agricultural Repromins Association annual meeting, Toronto, Ontario, December 28-30, 1972.
- G. Attendance at Western Agricultural Economics Research Council, Economics of Natural Resource Development Committee meeting, San Francisco, California, October 22-24, 1975.
- H. Attendance at Land Use Planning Workshop, Seattle, Washington, December 16-18, 1974.
- I. Attendance at the American Agricultural Economics Association annual meeting, San Francisco, California, December 28-30, 1974.
- J. Attendance at NOAA Conference on Marine Recreation, Newport Beach, California, October 1-3, 1975.
- K. Attendance at Western Forestry Economists annual meeting, Wemme, Oregon, May 4-6, 1976.
- L. Attendance at University Council on Water Resources annual meeting, Honolulu, July 26-29, 1976.

- M. Attendance at the International Water Resources Educational Workshop, Honolulu, July 50, 1976.
- N. Attendance at Western Association for the Valuation of Ecosystems annual meeting, Lake Arrowhead, California, September 15-17, 1976.
- O. Attendance at Sociocultural Data for Fisheries Workshop, Seattle, October 21-22, 1977.
 - P. Sabbatic leave taken at the University of Washington, 1977-78.
- Q. Attendance at Western Association for the Valuation of Ecosystems annual meeting, Qualicom, British Columbia, September 5-7, 1979.
 - 4. Membership in Professional, Academic, and Scholarly Societies
 - A. American Economic Association, 1964 to date.
 - B. American Agricultural Economics Association, 1969 to date.
- C. Nominated to full membership in the Society of the Sigma Xi, Winter 1979.
- D. Western Association for the Valuation of Ecosystems, 1976-77, 1979 to date.

5. Awards, Honors, and Recognition

University of Montana Merit Scholarship, 1958-59

6. Professional Experience Outside Oregon State University

- A. Teaching Assistant, Economics Department, University of Washington, 1964-65. Handled four "quiz" sections per week for basic course in American Economic History.
- B. Research Assistant, Economics Department, University of Washington, Summer 1965. Collected and analyzed data on percentage of gasoline which was retailed in Washington state and used in boats.
- C. Research Assistant, Economics Department, University of Washington, 1965-66. Collected economic data and developed economic forecasts to be used in a multi-disciplinary study of water resources in Washington state.
- D. Teaching Associate, Economics Department, University of Washington, 1966-68. Taught one course each term on principles of economics (seven terms).
- E. Research Assistant, Economics Department, University of Washington, Summer 1967. Collected and analyzed economic data on anti-trust action case against manufacturers of large-diameter concrete pipe.