



ONCORHYNCHUS

Newsletter of the Alaska Chapter, American Fisheries Society

Vol. XX

Fall 2000

No.4

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Daily Activity Pattern of Sablefish

Alaska Chapter Annual Meeting

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Electrofishing Hazard

WWW Updates

And more . . .



Alaska Chapter 2000 Annual Meeting Alaskan Fisheries:

Past, Present, and Future Final Call For Papers/Posters

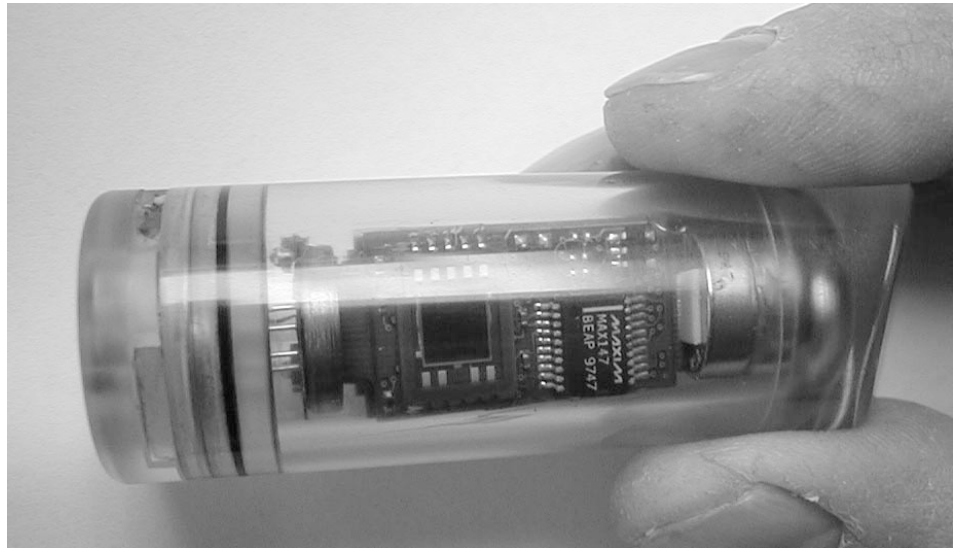
WHERE: Fairbanks; Wedgewood Hotel. Forty rooms (suites) are reserved at a terrific rate of \$60/night single occupancy, plus \$10 per additional occupant. Call 800-528-4916 **NOW** to reserve your room at this special rate; mention you are with the American Fisheries Society.

WHEN: Continuing Education courses are scheduled for November 13 and technical sessions are scheduled for November 14 – 16.

DROP DEADLINE: You must have your abstract submitted to your session chair (detailed below) by **no later than October 7** to be included in the program. Sessions offered are listed below in tentative order of appearance. The schedule is currently subject to change. PLEASE submit your paper or poster abstract to the appropriate chair electronically.

PRE-REGISTRATION: Form is enclosed in this newsletter or is available online at <http://www.fisheries.org/afs-ak/>. Please mail forms to Susan Walker USFWS 3000 Vintage Blvd, Suite 201, Juneau, AK 99801.

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Archival tag used to measure depth of Sablefish.

Daily activity pattern of sablefish measured with archival tags

Michael Sigler

Daily activity pattern is a basic measure of a fish's lifestyle. This measure provides insight into the amount of energy devoted to avoid predators and locate food. Observing the daily activity of individual marine fish is difficult because species often are mobile, water visibility usually is much less than short-term movement distances, at-sea field studies are costly due to vessel time, and an in situ observer may affect fish behavior. Available techniques include archival (data storage) tags, satellite (pop-up) tags, submersible and ROV observations, and sonic tags. Researchers at the Auke Bay Laboratory began tagging adult sablefish with archival tags in 1998 to study their daily activity pattern. We chose internally implanted archival tags because sablefish are targeted by commercial fishermen who could retrieve tags for us. Sablefish dwell on the upper continental slope where depth changes rapidly over short horizontal distances in any direction except along the depth contour, so depth changes are a useful measure of their activity pattern, as is temperature. We first conducted a laboratory study to determine how to attach the archival tags and to observe post-tagging effects. In a subsequent field study, archival tags were surgically implanted in the abdominal cavity of 330 sablefish throughout the Gulf of Alaska. The fish also were externally marked with a fluorescent pink and green tag. We offered a \$500 reward to promote tag return. Fifteen archival tags have been recovered so far and data from nine of these tags have been analyzed.

Three daily movement patterns were observed, random movement (irregular depth movements not related to time of day), diel vertical movement (greater depths during day and movement to shallower water at night), and reverse diel vertical movement (shallower depths during day and movement to deeper water at night). All nine fish exhibited random movement, eight fish exhibited diel vertical movement, and one fish exhibited reverse diel vertical movement.

Continued on page 3

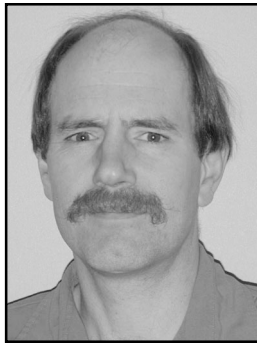
The President's Column

Bill Bechtol

As evening temperatures drop and the leaves change colors, many of you have been breathing sighs of relief at the end of a busy summer field season. Now is the time when a fall hunt or that last fishing outing offers a chance to get out and feel the crispness in the air as winter approaches. However, during this season plans are also being finalized for the Alaska Chapter's annual meeting at Fairbanks in November. Carol Ann Woody is putting together an exciting meeting agenda that is a true extension of the diversity and the complexity offered by Alaska's aquatic resources. A number of continuing education courses are also being offered in conjunction with the meeting. Annual meeting details are available elsewhere in this *Oncorhynchus* and you are encouraged to facilitate the meeting planning process by registering early and sharing meeting information with other fisheries professionals.

The Alaska Chapter annual meeting is an opportunity for Alaska's fisheries professionals to network and discuss tools and evolving solutions to problems facing assessment and management of our aquatic resources. Much can be learned by sharing our skills and experiences. In the late-1980s I spent four months in Japan, mainly on the island of Hokkaido, as part of an exchange program to study mariculture techniques. This was one of the more intensive experiences in my life as I was immersed in the language, as well as the social culture, of Japan. Not only did I observe a variety of mariculture approaches, but I was enveloped by an entirely different philosophical approach to life and life's problems. The Japanese have a term "kaizen" that can be loosely defined as continuous improvement. As fisheries professionals and as individuals on a planet with finite resources, we share a common goal to maintain the viability and productivity of our natural resources. It is through "kaizen" as individuals, and as professionals, that we work to improve the tools available for long-term management of those resources. The AFS, as a professional society, offers you many opportunities to share ideas and network with other professionals.

Although aquatic resources in Alaska are some of the best managed in the world, things are far from perfect. From the scientific aspect, we recognize that fish



populations will fluctuate, but we are far from understanding cause and effect and being able to accurately predict population fluctuations. In addition, our understanding of the scientific approach to fisheries management does little to ease the subsistence burden when runs fail, such as has occurred with Yukon River chum salmon. From a scientific aspect, we are not always well prepared to address the social dilemma when resource use must be allocating. A recent newspaper article was titled "When science and sacrament collide" and a major focus of the article was on the difficulty of balancing the rites of man with the rights of man." Although the actual article had little to do with fish, the principles were similar in that rites are an important part of a particular lifestyle. In Alaska, these rites are based in tradition that has provided for human survival in harsh conditions. Today, technology is changing the lifestyle, but survival still often means relying on certain patterns of existence. Through a greater understanding of lifestyles, we can perhaps incorporate local knowledge, thereby expanding our tools to manage the aquatic resources.

As I complete this, my last President's Column, I want to again express my appreciation to all of you, the members for your support. Together you are capable of great things and you truly are an outstanding Chapter. However, don't forget that it is you, the members of this professional society, that determine or limit what is accomplished. Projects such as the Fishes of Alaska Key and the Salmon Stock Status project, and the actions of the Chapter's committees, only occur through the efforts of dedicated individuals such as yourselves. It is up to you to provide the energy and direction for future efforts in which we can serve our membership. Through your "kaizen", you will help shape the tomorrows of the aquatic resources to which we are entrusted, but only if you get involved.

I look forward to seeing you in Fairbanks in November. ☺

WWW Updates

Allen Bingham

A number of revisions to the Chapter's website (<http://www.fisheries.org/afs-ak>) have been recently completed. Most of the changes involve adding navigation tools within the site to make it easier to get around the site. Additionally, a simple search tool has been added to help locate information easier. If you haven't visited recently — CHECK IT OUT!!!

The Student Subunit of the Alaska Chapter has recently moved their website to a location within the Chapter's site. Content of the site is still forming, but if you're a student member (or even if you're not) you should add their site to your favorites/bookmarks/shortcuts: <http://www.fisheries.org/afs-ak/student/>. ☺

ONCORHYNCHUS

Oncorhynchus is the quarterly newsletter of the Alaska Chapter of the American Fisheries Society. Material in this newsletter may be reprinted from *AFS Diary* and *Western Division*.

Editor

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Deadline for materials for the fall issue of *Oncorhynchus* is Dec. 10.

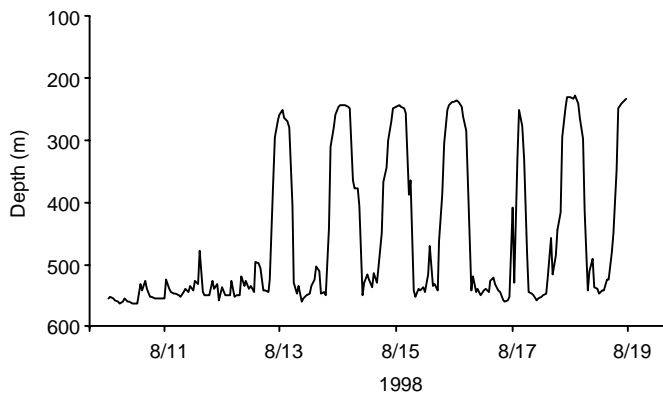
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Alaska Chapter's Internet Home Page Address

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Remember
Your Vote Counts
Please Vote for Your Chapter Officers

Sablefish, continued from Page 1

Vertical migration typically occurred for periods of several days or weeks, preceded and followed by months with no vertical migration. Vertical migration occurred throughout the year and no obvious seasonal pattern was apparent.

The shallow depth of the diel vertical movement range typically was 250 meters, the approximate depth of the continental shelf break in the Gulf of Alaska, where invertebrates and small fish concentrate; sablefish may vertically migrate to this depth to feed at night.

Tagged fish can be identified by a 3-inch long, fluorescent green and pink, external tag located near the first dorsal fin. Text on the tag reads "Reward for Depth Sensor Inside Fish." Anyone who encounters fish with these green and pink tags should cut the fish open and remove the electronic tag from the abdominal cavity. Both the external and electronic tags should be retained, as well as the otoliths. Individuals may report a recovered tag and earn a \$500 reward by calling 907-789-6037, or mailing it to Michael Sigler, National Marine Fisheries Service, Auke Bay Laboratory, 11305 Glacier Hwy, Juneau, Alaska 99801, Mike.Sigler@noaa.gov. For further information on sablefish research at the Auke Bay Laboratory, view <http://www.afsc.noaa.gov/Quarterly/jas99/jas99qtr/html/Feature.htm>.

WD AFS Logo Contest Winner Announced

The Western Division of AFS Logo Contest is over! The winning logo was submitted by Ms. Maria Bozionelos, a graphics designer working for the Graphics Unit for the State Water Resources Control Board/Division of Water Rights. Mike Meinz, President of the Cal-Neva Chapter works with Maria and told her about the Division's Logo Contest.

Maria submitted six entries; three of the six were the top vote getters. Two other artists submitted entries. The entries were displayed



at the Western Division annual meeting in Telluride and voted on by the meeting participants. Maria, when she isn't on the job, also designs brochures, reports/booklets, covers, posters, exhibits/displays, apparel, web pages, newsletters, announcement cards, folder presentations, and powerpoint presentations. Maria will receive a \$500 check for her winning entry.

You can view the winning entry at: <http://www.fisheries.org/wd/images/WDlogo.jpg>.

Dues - Dues - Dues

Allen Bingham

This issue of *Oncorhynchus* has been sent to a number of 1999 AFS or chapter members who failed to renew their membership for 2000 as (1) an invitation to renew their membership and (2) to provide a one-time "bonus" issue of the newsletter to get the word out about this year's annual meeting. If you choose not to renew your membership — this will be the last issue you receive!!!

Please check your mailing label to verify that your membership with the AFS and the Alaska Chapter is current. For example, if the first line of your mailing label is:

2097 A 0099

the last four digits indicate your Dues Paid Through information. The first two numbers indicate the year through which your Parent Society dues are current in this case 2000 (note that Life members are automatically coded as 9999, and non-Y2K compliant printed as 99, but the letter after their member number is L). The last two numbers indicate whether you are current in the Alaska Chapter of AFS. In this example, the member last paid in 1999. If your Chapter Dues are coded "33" this means (according to our records) that you've never paid Chapter

Dues. If your last two numbers are not 00 or 01, then PLEASE BRING YOUR CHAPTER DUES UP TO DATE (see the membership application form on the back cover of the newsletter). Thank you for attending to this matter. If your records indicate that our dues information for you appear to be incorrect please contact Allen Bingham at 267-2327 or Allen_Bingham@fishgame.state.ak.us.

Safety Alert - Electrofishing Hazard

We recently purchased a light-weight chest wader sold by Cabela's: Dry-Plus G-II Breathable Waders, Bootfoot, Catalog # CA-81-1295. We've discovered that these waders are conductive and should not be used in any stream or backpack electrofishing application. We've had two separate instances of personnel receiving multiple jolts while wearing these waders (new, no leaks apparent); the problem seems to be in the composition of the upper, "fabric" portion of the wader.

Contact Jim Thompson WDNR - Lake Michigan Fisheries Work Unit, 600 E. Greenfield Ave. Milwaukee, WI 53204 (414) 382-7924 thompjm@dnr.state.wi.us.

Annual Meeting Sessions, continued from page 1 Tuesday, November 14

Fishing Effects on the Seafloor

Session Co-Chairs: Gordon Kruse;

Gordon.kruse@fishgame.state.ak.us or 465-1606; and Phil Rigby, *Phillip.Rigby@noaa.gov*

Marine Protected Areas - Are They Right For Alaska?

Session Co-Chairs: Alan Springer, University of Alaska Fairbanks; *ams@ims.uaf.edu* or 474-6213 and Michelle Ridgeway, Oceanus; *oceanus@pti.alaska.net* or 463-6782

Subsistence Fisheries: Past, Present and Future

Session Co-Chairs: Jerry Berg, US Fish and Wildlife Service and Tom Kron, Alaska Department of Fish and Game; *jerry_berg@fws.gov* or 786-3876;

tom_kron@fishgame.state.ak.us or 267-2166

Wednesday, November 15

Yukon River Fisheries: Past, Present, and Future

Session Chair: Randy Brown, USFWS;

randy_j_brown@fws.gov or 456-0295 or send mail to: Fairbanks Fishery Resource Office, 101 12th Ave., Room 222, Fairbanks, Alaska 99701

Human Nature, Human Influences - Is Alaska Really Different?

Session Chair: David Cannon, US Fish and Wildlife Service; *dave_cannon@fws.gov* or 543-3151

Native Salmonids of Alaska

Session Chair: Jack Piccolo; *ftjpp1@uaf.edu* or 586-8811 ext 236

Contributed Paper Session

Session Chair: Carol Ann Woody; *carol_woody@usgs.gov*

Poster Session

Session Chair: David Wiswar; *david_wiswar@fws.gov* or 456-0453

Thursday November 16

Modeling: a Tool for Managing Alaska's Fisheries

Session Chair: Peggy Merritt, Alaska Department of Fish and Game; *Peggy_Merritt@fishgame.state.ak.us* or 459-7296, Fax 456-2259

Sustainable Fisheries In Alaska

Session Chair: Steve Riefensthal; *steve3@eagle.ptialaska.net*

Workshop: Age-Structured Assessment Models

Facilitators: Fritz Funk; *fritz_funk@fishgame.state.ak.us* or 456-6113 and Peggy Merritt,

Peggy_Merritt@fishgame.state.ak.us or 459-7296, Fax 456-2259

Continuing Education Courses and Workshops

November 13 - See registration form

8:00 - 12:00

Course: Bootstrap Data Analysis: Applications and Limitations

Instructor: Joel H. Reynolds, Biometrician, ADFG and Affiliate Faculty, Dept. of Statistics, University of Washington; *Joel_Reynolds@fishgame.state.ak.us*

1:30 - 4:30

Course: Everything you Wanted to Know About Genetics but Were Afraid to ASK.

Instructors: Carol Kerkvliet and Jeff Olsen; Gene Conservation Laboratory, ADFG;

carol_kerkvliet@fishgame.state.ak.us or

jeff_olsen@fishgame.state.ak.us

Spotlight on

Chapter Meeting Guest Speaker, Ray Hilborn

We are honored to have Ray Hilborn as our guest speaker for the session, "Modeling: a Tool for managing Alaska's Fisheries" at the 2000 annual AFS Alaska meeting. Ray is a well-known colorful character who has had a tremendous impact on fisheries research and management, especially in Alaska. Ray's PhD research at University of British Columbia (UBC) focused on population dynamics and simulation modeling for natural resource management. While at the International Institute for Applied Systems Analysis in Austria, he furthered the application of modeling statistics to issue-driven problem-solving, including Canada's salmon management. After working for the Canadian government, at UBC for Canada's Salmon Enhancement Program, and a two-year stint with the South Pacific Commission in New Caledonia, he joined the University of Washington, where he is currently program director of the Alaska Salmon and High Seas Salmon programs.



Currently, Ray and his students are involved in numerous salmonid studies of survival and enhancement of fish species. He is reviewing the biological and economic success of marine enhancement projects around the world to help determine how to make evaluation of enhancement more effective. On the recreational side, Ray has a study in New Zealand modeling the long-term dynamics of the important sport fishery for snapper to understand how interactions between harvesting, habitat, and enhancement affect fish survival. Ray is also applying Bayesian methods to fisheries assessments including the risk of species extinction. Of special interest to Ray is his Alaskan studies, which are currently concentrated on forecasting, escapement goals, and the use of the Pt. Moller test fishery. He also has a study on small sockeye salmon streams, looking at run timing and habitat utilization.

At the annual meeting in November, Ray will be talking about the past, present and future of modeling. Specifically, has past modeling been useful to management? What great successes and failures have there been? How is modeling currently being applied? What will be the future directions for modeling and its applications? We look forward to having the opportunity to interact with Ray and hearing his views on modeling and fisheries in general. Please join us at the session!

*It's time to vote for your chapter officers!
See ballot in this issue or
vote on-line!*

Conference Announcements

International Conference on Restoring Nutrients to Salmonid Ecosystems

April 24-26, 2001; Eugene, Oregon

First Call for Papers

Around the North Pacific Rim, the ocean is productive yet rivers tend to be naturally oligotrophic. Salmon are a unique vector by which marine nutrients are captured and carried against the force of gravity far into freshwater ecosystems. Although this "anadromous nutrient pump" has been recognized for decades, its importance – not just to fish production, but to the entire ecology of the Northwest – is just coming into focus with the application of new research questions and techniques.

If the inland spread of nutrients by salmon is imagined as a shadow over the landscape, that shadow has been severely truncated and faded by anthropogenic impacts such as dams, roads, resource extraction, and overfishing. Can managers restore this landscape and its functions without somehow compensating for diminished nutrient inputs? When and where is it appropriate to add nutrients? What techniques are best for restoring natural nutrient regimes in aquatic ecosystems – now and into the future? Can we eventually rebuild the "anadromous nutrient pump"? This conference will provide insight and answers to these questions.

The International Conference on Restoring Nutrients to Salmonid Ecosystems is hosted by the Oregon Chapter of the American Fisheries Society and sponsored by other regional AFS chapters and agencies. Its purpose is to capture and showcase the latest information on one of the most pressing issues affecting the recovery of Pacific salmon and their ecosystems. A plenary session will include invited presentations by key researchers in the field of nutrient dynamics and management in lakes and streams, and throughout the North Pacific ecoregion. In addition, contributed papers and posters that describe case histories, hypotheses, or research related to the North Pacific Rim and the following topics are welcome:

- ◆ description and management of historical and current nutrient regimes
- ◆ ecological linkages between salmon and productivity of freshwater ecosystems
- ◆ ecological impacts of a diminished salmon nutrient shadow
- ◆ nutrient dispersal mechanisms
- ◆ effects of hatcheries, harvest, and other resource management on nutrients and their dispersal
- ◆ incorporating nutrient management into ecosystem restoration
- ◆ contrasting good vs. bad nutrients and mechanisms (e.g., salmon vs. cow pies)
- ◆ re-assessing salmon escapement for restoring ecosystem productivity goals

Proposals for contributed papers (oral presentations) and posters must be received by December 1, 2000. Proposals should be prepared in 10-pt Times New Roman font, left-justified, without special formatting, and submitted as a digital file (MS Word or "RTF") on a 3.5-inch disk or via email (if email, attach the file and also embed the text within the email message). You must include:

- ◆ a brief, descriptive title
- ◆ a list of all authors, their addresses, telephone and fax numbers, and email an abstract, including brief methods and results, not exceeding 300 words

- ◆ addresses (clearly identify the presenter with an "**")
- ◆ indication of preference for oral or poster presentation
- ◆ type of projection equipment needed (slide, overhead, or computer [bring your own])

Submit all proposals to: Richard Grost, PO Box 128, Idleyld Park, OR 97447; Phone 541-496-4580; rgrost@compuserve.com.

Proposals will be screened for pertinence to the topics and technical merit. Proposers will be notified by January 15, 2001, as to the disposition of their proposal. Accepted abstracts will be compiled in a booklet for conference registrants. Please note that authors of contributed papers or posters are required to register for the conference.

Presentations must be no longer than 25 minutes to allow for audience questions. Graphics must be crisp and clear, so they can be read at a distance of 50 ft when projected on an 8-ft screen. Posters must be no larger than 4 ft square, and be able to tack onto vertical plywood boards.

Registration is \$195 (\$75 for students and retirees), with a \$25 late fee added after March 1, 2001. Registration forms will be available in October 2000. Conference lodging, at special rates, can be arranged at the Eugene Hilton, 800-937-6660. For more information, call Richard Grost at 541-496-4580, rgrost@compuserve.com.

Northwest Salmonid Recovery Workshop

Who should attend? Professionals interested in gaining a deeper understanding of salmonid related issues including: regulation, biology, habitat requirements, assessment, and restoration.

The workshop will be held October 24 - 27, 2000, 8 A.M. to 5 P.M. (4 Days) at Mountaineers Conference Center, 300 Third Avenue West, Seattle, WA 98119.

Registration Fee: \$540 for all 4 days, \$135/day for 2 or more days, or \$150 for 1 day. Government and Nonprofit Rates: \$432 for all 4 days, \$108/day for 2 or more days, or \$120 for 1 day. Registration can be completed by phone, fax, mail, or online at www.nwetc.org/salmonid.htm

For space availability or to request a registration packet call (206) 352-1510 or send e-mail to info@nwetc.org.

62nd Pacific Fishery Biologist Meeting

October 23 - 25, 2000

Ocean Shores, WA – Shilo Inn

"Life Preservers in a Sea of Change – Tools for Keeping Your Head above Water"

Conference pre-registration is due by October 9!

Program Contributions Lagging — SECOND CALL FOR PAPERS

So far, program contributions are below the need. If you have ideas for papers, sessions, or posters now is the time for you to let us know. The quality of the program depends on you. We need contributions now! Conference Organizer: Mike Fraidenburg 360-867-1140 or fraid@earthlink.net.



AFS Alaska Chapter 2000 Elections Candidates for Office

For Vice President - Carol Kerkvliet

Carol began working in fisheries in 1978 with the Alaska Department of Fish and Game (ADF&G) after earning a B.S. in wildlife biology from Humboldt State University. She worked a wide range of fisheries jobs for ADF&G including the sockeye rehabilitation project at Karluk Lake (1980-1982) and the Susitna Hydroelectric environmental impact study (1981-1984). Afterwards Carol switched from ADF&G to work for consulting firms conducting fish migration research in Prudhoe Bay and ballast water treatment analysis at the Alyeska Pipeline Terminal (1984-1986). Following this, she was project leader for the 1986 Hooper Bay tagging study on fall chum salmon for Bering Sea Fisherman's Association. In 1987, she returned to ADF&G and again worked on a variety of jobs, including herring research in the Bering Sea (1990-1996).

As she became more interested in fish migration and behavior, she realized she needed additional training to hone her research skills. Carol received a M.S. in biology with a thesis in gene regulation from the University of Alaska Anchorage in 1995. After receiving her M.S., she worked in the Gene Conservation Laboratory for ADF&G conducting population studies on red king and Tanner crab, pollock, and chinook salmon using genetic markers (1996 - May 2000). In May, she accepted an ADF&G project leader position for the Coho salmon mark-recapture study on the Kuskokwim River. The job also includes assisting the Yukon River chinook radio telemetry study.

Carol is an involved AFS member. In 1997, she attended the "Natural Resources Communication" workshop sponsored by AFS and the Alaska Chapter meeting in Juneau where she was awarded best poster and the Cultural Diversity travel award. In 1998, she chaired the Poster Session and served on the Local Arrangements Committee for the Lowell Wakefield/Western Division meeting held in Anchorage. She also presented her research at this meeting and took the GIS short course. Currently, she is a member of the Cultural Diversity Committee. Carol will be co-teaching a genetics workshop at this year's chapter meeting.

Carol believes the variety of data that needs to be considered in management and research today can be overwhelming. AFS can help us more effectively utilize this data through its chapter meetings, workshops, and committees. These events open special opportunities for us to learn of new research, to see new technologies, and to generate fresh ideas. With the belief that diversity strengthens the chapter, Carol will work to expand diversity by recruiting members from the native community and other underrepresented groups. She will also expand on the variety of sessions and workshops offered. She will initiate this by surveying the membership to determine what is not available, but should be. Finally, she will work with Committee Chairs to recruit new members to their committees and offer her support and ideas to their members.



For Vice President - Cathy Coon

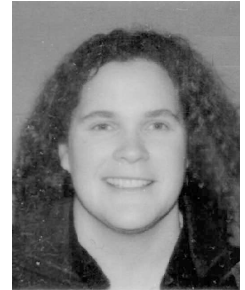
Cathy works as a fisheries analyst and GIS specialist for the North Pacific Fishery Management Council in Anchorage. Her work focuses on habitat protection measures as well as Ecosystem management issues. She's currently undertaking a stakeholder process to seek public input on locations of deep sea corals and sponges, as well as fisheries interactions with Steller Sea Lions. Her professional interests lie in groundfish and shellfish fisheries and incorporating GIS and spatial statistics into fisheries management and policy issues.

Cathy has been involved in fisheries in Alaska for the last 10 years. She originally came to Alaska as a federal groundfish observer and worked on trawlers, longliners and pot vessels, sampling catch effort in the Gulf of Alaska. Her love for small Alaska fishing communities and marine resource management inspired her work in public service as a link between fisheries managers and the commercial fishing industry. She worked as a logistic coordinator for an observer contractor out of Kodiak for 4 years. She subsequently worked for Sportfish Division of Alaska Department of Fish & Game sampling sport caught bottom fish as well as sampling for the International Pacific Halibut Commission before the implementation of the individual fishing quota program.

Cathy attended graduate school at UAF - Juneau Center of School of Fisheries and Ocean Sciences, and her thesis efforts focused on the effects of bottom trawling on the seafloor- changes in benthic community composition. She has finished all her required course work and research and is finishing her thesis. She expects to graduate May 2001.

While living in Juneau she helped initiate the AFS student chapter and orchestrated the first student symposium there. Cathy has been a member of AFS since 1995. She formerly has been the President for the Women's Fisheries Network for 2 years and was a board member for an additional 3 years.

Although a relative newcomer to AFS, Cathy's enthusiasm and commitment to public service will provide new energy to the AFS Alaska Chapter if she's elected. She feels that annual meetings are a great forum for sharing scientific studies within the Chapter and they provide inspiration to future fishery professionals. Her goals are to increase membership and to incorporate a strong link between marine and riparian issues to encompass a broader group of scientists.



*Register Now
to attend
the Alaska Chapter Annual Meeting !*

Statistical Association Meetings

Allen Bingham

The 2000 annual meeting of the Alaska Chapter of the American Statistical Association (Alaska ASA) was held August 21-22 in Kodiak. The featured speaker was Bryan Manly, Professor of Statistics at the University of Otago, New Zealand. Dr. Manly is also the editor for the Journal of Agricultural, Biological and Environmental Statistics (JABES). Dr. Manly has written three books of notable reputation: "Multivariate Statistical Methods: A Primer"; "Randomization, Bootstrap and Monte Carlo

Methods in Biology"; and with Dr. Lyman McDonald and Dr. Dana Thomas, "Resource Selection by Animals: Statistical design and analysis for field studies". Technical talks by chapter members were also presented.

Next year, Alaska ASA's annual meeting will be held in Anchorage, dates and featured speaker are not yet determined. Contact the meeting chair Bob Sutherland (robert_sutherland@fishgame.state.ak.us) for further information.✂

Officer Ballot

For Alaska Chapter Vice President and Treasurer

Cut off ballot (must be original) and mail in a stamped envelope to:

Bill Bechtol, 3298 Douglas Place, Homer, AK 99902-0686.

Ballots must be postmarked by October 31, 2000 to be counted.

You may also vote online at <http://www.fisheries.org/afs-ak/elections/2000/oclist2000.htm>.

Vice President:

_____ Carol Kerkvliet _____ Cathy Coon _____ Write-in _____

Treasurer:

_____ Bob Ourso _____ Write-in _____



----- CUT HERE ----- REMEMBER - YOUR VOTE COUNTS! ----- CUT HERE -----

AFS Alaska Chapter 2000 Elections Candidates for Office

For Treasure - Bob Ourso

Bob is a stream ecologist with the US Geological Survey Water Resources Division, National Water Quality Assessment Program (NAWQA) for the Cook Inlet Basin. Since his arrival in Alaska over a year and a half ago, he has been active in the collection of data pertaining to the biological communities of streams within the Cook Inlet Basin. He is responsible for the collection and subsequent analysis of algae, benthic macroinvertebrates, fish, physical habitat, and water chemistry.



Bob obtained his BS (Zoology) from the University of Texas at Austin, with an emphasis on aquatic entomology. There, he worked on projects investigating the use of biological controls of invasive species, and the effects of global warming on bleaching events of coral. He received his MS from Southwest Texas State University. His thesis examined the effect of an invasive South American snail on the habitat of the endangered fountain darter in the largest spring system west of the Mississippi River. He also worked for the Edwards Aquifer Research and Data Center, where he was the system administrator responsible for the operation of the network and workstations, as well as development and maintenance of the website and

associated databases. He also developed software solutions for the implementation of a real-time web delivered ground water monitoring network. It was this work that brought him to the attention of the US Geological Survey.

Upon completion of his master's thesis, Bob went to work full time for the South Central Texas NAWQA. His responsibilities there included planning and oversight of the fish collection and taxonomy, and biological database development and management. He was then offered the position of biologist for the Cook Inlet Basin, which he readily accepted.

His current interests focus on the effects of urbanization on streams in the Anchorage bowl. He hopes to use algae, macroinvertebrates, fish (particularly coho and dolly varden), habitat, and water quality to determine whether there is a linear or threshold effect on stream biota and habitat with respect to urbanization, so that future management policy decisions may be well grounded in science.

Bob has been a member of AFS since his graduate work in Texas. He brings a unique set of skills to the table as he was a business manager for ten years before returning to school to become a biologist. Bob wishes to become more involved in the society's activities as he has gained much from being a member.

Oncorhynchus

Allen Bingham
P.O. Box 221804
Anchorage, AK 99522-1804

FIRST CLASS

RETURN REQUESTED - DO NOT FORWARD

2000 Alaska Chapter Officers

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Feel free to contact the Executive Committee members.

2001 AFS Membership Application

Print or type applicant's name in full

Address

City State Zip Code

Nation Membership year*

Kindly make checks payable to American Fisheries Society in U.S. Currency or Equivalent.

Please mail to Allen Bingham P.O. Box 221804 Anchorage, AK 99522-1804

Professional recruiting others (PROCLUB)

If applicant is a student as defined below, the teacher endorsing him signs here.**

Name of institution where student is enrolled

Date

Please provide phone numbers for directory and Society use only:

Home Work

Fax

Employed by: federal gov't state/prov. gov't industry academia self

Alaska Dues: \$10.00 Alaska Student Dues: \$5.00

Membership Dues (includes Fisheries and Membership Directory)

Regular (North America): \$76.00 (Other than North America, \$88.00)

Student (North America): \$38.00 (Other than North America, \$44.00)

Retired (North America): (65 or over): \$38.00 (Other than North America \$44.00)

Life (All): \$1,737.00 (includes Fisheries and one other journal of choice)

1 Prices are for AFS members only 2 Membership not required for subscription
* New members accepted Jan. 1-Aug.31 are credited to full membership for that year. (Back issues of Journals are sent.) Members accepted Sept. 1-Dec. 31 credited to full membership as of next Jan. 1, unless requested otherwise. Membership on calendar year only.

Journal Subscriptions (Optional)

- Transactions of the AFS¹ N.A. Journal of Fisheries Management¹
 - \$38.00 Paper in North America \$43.00 Paper other than N.A.
 - \$25.00 E-Pub via WWW/Internet
- North American Journal of Aquaculture² Journal of Aquatic Animal Health¹
 - \$38.00 Paper in North America \$43.00 Paper other than N.A.
 - \$25.00 E-Pub via WWW/Internet

** Bona fide students of fisheries subjects are eligible for Student membership (limited to 6 years). Persons employed full-time not eligible. Teacher endorsement required (see above).

NOTE: Retired membership for Active members upon retiring at age 65. Sustaining membership for commercial firms, conservation clubs, or others desiring to support the Society. Library Subscriptions include bimonthly *Transactions*, quarterly *North American Journal of Fisheries Management*, *Journal of Aquatic Animal Health*, quarterly *The Progressive Fish-Culturist*, bimonthly *Fisheries*, and Membership Directory.