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And more . . .



Leroy Martin, Walter Jack Jr., and Pete McCluskey beach seine sockeye salmon for marking at Sitkoh Lake in 2001.

Science Goes to the Villages in Southeast Alaska

Meg Cartwright

Slap a \$1000 down on the counter of an air charter service in Juneau and you can fly to a remote area on the east coast of Baranof Island and observe tribal technicians and state biologists conducting research on the sockeye salmon returning to Falls Lake. You will witness people from a wide variety of cultural and educational backgrounds working side by side to collect information on sockeye salmon, one of the most important subsistence foods in Southeast Alaska. You are apt to hear words such as “marked/unmarked ratio”, “otoliths”, and “zooplankton” being matter-of-factly tossed around by crew

members, words that were not in their vocabulary five years ago.

What happened five years ago to make this possible? U. S. Forest Service (USFS) subsistence funds became available in 2000 to involve rural communities in fishery science by designing studies that included both tribal members and state and federal biologists in Alaska. Tribal governments saw this as an opportunity to participate in fishery research, provide jobs, and increase their input to decisions made by state and federal fishery managers. The Alaska Department of Fish and Game (ADF&G) and the USFS saw this as an opportunity to estimate sockeye escapements in lesser-known lake systems important to subsistence users and to improve communication with rural residents.

In Southeast Alaska, seven sockeye stock assessment projects were launched in 2001 with two projects added in 2002 and one in 2003. Eighteen sockeye lake systems, ranging from the southern tip of Prince of Wales Island (Hetta Lake) to as far north as Hoktaheen Lake on Yakobi Island, were studied. Most of these projects continue today. The projects were selected during a scoping process held in seven rural villages: Hydaburg, Klawock, Kake, Angoon, Hoonah, Wrangell, and Sitka. Every community identified sockeye salmon as the number one subsistence fish resource and each community chose sockeye systems within their jurisdiction to study.



Scale sampling a sockeye salmon at Hetta Lake in 2001.

Continued on page 4

The President's Column

Scott MacLean

Congratulations and welcome to the new officers of the Alaska Chapter Executive Committee! Jamal Moss is now President-Elect and chair of the 2006 annual meeting. Bert Lewis is Vice-President and Steve Zemke is Secretary. Lee Ann Gardner is our new treasurer and Ray Hander will become the Chapter's financial liaison. A big thanks is also due to our past presidents Hal Geiger, Tim Joyce, and Carol Kerkvliet who extended or advanced their service and temporarily filled positions on the Executive Committee! I would also like to extend a warm welcome to the new committee members and appreciation to those who continue to serve. Thanks go to Gretchen Bishop who has the courage and enthusiasm to become our newsletter editor. Encouragement and support go out to all the campus groups of the student subunit. Many people are actively involved and committed to making a difference in fulfilling the mission of AFS. However, as Hal mentioned in last issue of *Oncorhynchus* it is much easier to reach our goals when we have money.

As you may have guessed the Alaska Chapter netted a substantial amount of money from the 2005 national meeting in Anchorage. In all, we earned more than \$30,000 as a direct result of the tremendous planning efforts and financial discipline of our outstanding local arrangements committee. I have been asked where we should put our money? Should we put the money towards workshops and training for our members? Can we have the next annual meeting at the Chena Hot Springs Resort as the Chapter did back in 1981? Or should some of the money go towards the partial funding of the 4-H Fisheries, Natural Resource and Youth Development Program which has requested \$10,000 from the Chapter?

Fortunately, at the 2001 business meeting the membership adopted a motion charging the Past Presidents Committee with the development of a long-range financial plan for the AFS Alaska Chapter. I am thankful to the committee members who prepared the plan and presented it to the Executive Committee in January 2004. The plan is fairly broad encompassing the wide range of activities that the Chapter may be involved with currently or in the future. The primary focus of the plan is for the Chapter to maintain financial solvency while executing the mission of the Chapter on an annual



Scott Maclean, AFS
Alaska Chapter
President

basis. In light of the financial plan I believe the Executive Committee has the responsibility to direct the money toward ideas such as supplementing the cost of continuing education classes to reduce the cost to Chapter members or setting up a general scholarship fund for fisheries students in Alaska.

Obviously there are many decisions yet to be made and I have confidence that the members of the Executive Committee will choose wisely. Financial decisions of this magnitude (more than \$2,500) will require approval from you, the members, during our annual business meeting. I am looking forward to working for you as President and working with the outstanding members of our Executive Committee in defining and realizing the Alaska Chapter's goals in 2006. As always, feel free to contact me with your thoughts and ideas.

On a separate note, our Environmental Concerns Committee drafted a letter of concern to the Alaska Department of Environmental Conservation (DEC) regarding the 2005 proposed mixing zone regulations. The letter was approved by the Executive Committee and sent to DEC stating the Chapter's opposition to allow exemptions from the current absolute prohibition on mixing zones in streams, rivers, and other flowing fresh waters where anadromous or select resident fish spawn. We believe any positive attributes of DEC's 2005 proposal are strongly overshadowed by the provision to allow exemptions for mixing zones in fish spawning areas.

In conclusion, the Chapter strongly urges DEC to apply a precautionary principle approach and reconsider opening the door to aquatic resource degradation by eliminating the current prohibition on mixing zones. A copy of the letter is on the Chapter's website at <http://www.fisheries.org/afs-ak/>.

Wally Noerenberg Award Committee

Doug Palmer

The Wally Noerenberg Award for Fishery Excellence is the highest award of the Chapter. It is bestowed to especially honor the excellence of an individual's life-long fishery career achievements. The award was created in 1981, and in 1982 was awarded posthumously to its namesake, Wally Noerenberg. Since then, there have been twelve recipients: Armin Koerning, Robert Armstrong, Clem Tillion, Steven Pennoyer, Jim Branson, Jim Reynolds, Ole Mathisen, Ken Roberson, John H. Clark, A.J. Paul, Alex Wertheimer, and Lance Trasky. Contributions may include, but are not limited to: fisheries research; technology development; species and habitat management; innovations in harvesting, processing or marketing; academics or fisheries education; and involvement in national and international affairs affecting Alaska fisheries.

The committee is comprised of three Chapter past-presidents and a committee chair that cannot be a past president. Committee members during 2005 were Carol Ann Woody, David Wiswar, Carol Kerkvliet and I as chair. Although the committee received three nominations for the Wally Noerenberg Award prior to the July 31 deadline, no award was made for this year.

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*.

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Deadline for materials for the winter issue of *Oncorhynchus* is March 10.

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2006 AFS Alaska Chapter Meeting in Fairbanks

I know it seems like yesterday that we had the American Fisheries Society meeting in Anchorage, but it is time to start planning for next year's event. This Chapter event will provide you with the opportunity to share information on your management and research projects with others in the state. The meeting will be held in Fairbanks in late October or early November of 2006. The date is yet to be determined, but more details will be available in the next issue of *Oncorhynchus*. At this time, we are looking for volunteers to chair sessions and line up those that have papers they want to present. Sessions need to be finalized by mid-February. If you're interested in chairing a session or have an idea about a session you would like to see offered, please contact Jamal Moss. ☺



Meetings and Events

Pacific Salmonid Recovery Conference

A meeting to address the science, policy, assessment, restoration, and monitoring of Pacific salmonid populations will be held from February 15-17, 2006 in Seattle, Washington. Abstracts were due by December 31, 2005. For more information visit the website at: http://www.nwetc.org/bio-500_02-06_seattle.htm or contact Erick McWayne at emcwayne@nwetc.org.

The Crustacean Society Annual Summer Meeting

The Crustacean Society will hold its annual meeting from May 22 - 26, 2006 in Juneau, Alaska. Watch for updates on symposia and activities as the meeting website develops at: <http://www.uas.alaska.edu/biology/tamone/tcs/index.htm> or contact Sherry Tamone at (907) 796-6599 for more information.



Western Division Annual Meeting

The Western Division of the AFS will hold its annual meeting from May 15-19, 2006 in Bozeman, Montana. The symposium theme is: "Natives and Newcomers" and will explore ramifications of encroaching development in the West on fisheries. For more information visit the symposium website at: <http://www.fisheries.org/AFSmontana/2006AFSWesternDivisionAnnualMeeting.htm> or contact Leanne Roulson at lhroulson@garciaandassociates.com.



8th Biennial River Management Society Symposium

The River Management Society and the Missouri River Natural Resources Committee is sponsoring a symposium from May 9-12, 2006 in Sioux City, Nebraska. The theme of the meeting is: "Collaborating in the Current". For more information visit the website at: <http://www.river-management.org/symposium.htm>.

ASLO

The American Society of Limnology and Oceanography will hold its Summer Meeting from June 4-9, 2006 in Victoria, British Columbia. The theme of the meeting is "Global Challenges Facing Oceanography and Limnology".

The deadline for abstract submission is January 20, 2006. For more information visit the website at: <http://aslo.org/meetings/victoria2006> or contact Helen Schneider Lemay at business@aslo.org.

AFS 136th Annual Meeting

The Annual Meeting of the American Fisheries Society will be held September 10-14, 2006 in Lake Placid, New York. The theme of the meeting is "Fish in the Balance" and it will explore the interrelation between fish, aquatic habitats and man.



Symposia proposals will be accepted through January 13 and deadline for abstract submission is February 10. Check out the meeting web site for more information as it develops at: <http://www.afslakeplacid.org/>.

Gadid Symposium

The 24th Lowell Wakefield Symposium entitled "Resiliency of Gadid Stocks to Fishing and Climate Change" will be held from October 31–November 3, 2006 in Anchorage. Abstracts are due April 4, 2006 and may be submitted online.

For more information, visit the sea grant website at: <http://www.uaf.edu/seagrant/Conferences/gadids/index.html> or contact the symposium coordinator Sherri Pristash at fyconf@uaf.



Welcome the New Officers of the Alaska Chapter of AFS

Tim Joyce

The recent election of officers has resulted in some new faces at the helm of the Alaska Chapter of the American Fisheries Society. This year was a different election than years past because of the vacancy left when we lost our friend Molly Ahlgren at the very start of her term of office as president. We had two positions to fill, one was the president-elect and the other was the vice-president. We had two very qualified candidates running for office and two positions to elect. The Excom decided that the best solution would be to have the candidate with the highest number of votes step into the president-elect position and the other candidate would become the vice-president. We were also electing a new secretary for a two-year term and we had one candidate for that position.



Jamal Moss, the new AFS Alaska Chapter President-elect

The results of the election put Jamal Moss from Juneau into the president-elect position. Jamal graduated from Connecticut College and has a master's degree from the University of Washington (UW) where he worked on

the ecology of prickly sculpins. He is currently a Ph.D candidate at UW and he is also working at the Auke Bay Laboratory in Juneau in the Ocean Carrying Capacity Program. Jamal is young and energetic and will serve the Alaska Chapter well for the next several years.

Bert Lewis will be the next vice-president of the Alaska Chapter. Bert received his Bachelor of Science degree from the University of Colorado. After working as a guide and later as a fisheries technician he went back to school and earned his master's degree in Watershed Science. Bert has had a variety of working experiences ranging between Dillingham and Puerto Rico dealing in research and management. He is currently working in Cordova as the area finfish management biologist for the Alaska Department of Fish and Game.

Steve Zemke pulled off a landslide win over "write-in" in this election. Steve will be handling the secretary duties for the next two years. Steve is a life member of AFS. He graduated from the University of Idaho in Fisheries Management and started his career with the US Forest Service shortly thereafter. Steve has been working with fish throughout his adult life from Idaho and Oregon to Alaska. Steve is currently the Subsistence Coordinator and Exxon Valdez Oil Spill Liaison for the Chugach National Forest in Anchorage.

The Chapter welcomes all three new officers to their positions and especially thanks them for volunteering their time and skills to the American Fisheries Society. It takes volunteers like these three individuals to keep our Chapter relevant. 🐟

Science Goes to the Villages in Southeast, Alaska, *Continued from Page 1*

Four of the projects focused on a single lake and the crew installed a weir on the outlet streams. The other projects typically included three lakes per project, with the crew spending three days at each lake performing a mark-recapture study on the spawning grounds. At some systems the crew estimated the subsistence and sport sockeye harvest in the adjacent marine area, estimated sockeye fry abundance, and collected limnological information on each lake.

In several cases managers either restricted the subsistence harvest in the marine terminal areas or allowed for more liberal annual harvests. ADF&G managers, prompted by in-season subsistence harvest estimates adjacent to Falls and Klag lakes, closed the fisheries early or introduced periods of closure within a season to ensure adequate escapements in to these lakes. Neva Lake, on the other hand, was thought to only have about 1,000 sockeye spawners returning each year. After several years of counting over 5,000 sockeye salmon through a weir, ADF&G managers increased the annual subsistence harvest limit from 10 to 40 fish.

In 2001, the Federal Subsistence Board adopted a proposal to exclude non-federally qualified subsistence users from fishing in the outlet stream of Kutlaku Lake,

located at the head of Bay of Pillars. This action was taken, in part, because of the perceived conservation concerns about the sockeye population returning to Kutlaku Lake. ADF&G requested that the Federal Board of Fisheries reconsider this regulation because very little was known about the strength of the Kutlaku sockeye run. All parties agreed that if the tribal technicians estimated the sockeye escapement into Kutlaku Lake, this would provide the information needed to settle the question. This Kutlaku project is a showcase example of how federal and state biologists can cooperate to answer an important public policy question, while building expertise in the villages of Southeast Alaska. Five years after the program started, the working relationships between governments have far exceeded original expectations. Tony Christianson who oversees the sockeye research projects for the Hydaburg tribal government (Hydaburg Cooperative Association) states: "The projects allowed us to hire tribal members to work in subsistence fisheries monitoring and provided the tribe with an opportunity to actively participate in managing the resources at the local level. The Hydaburg Cooperative Association is very appreciative of the funding, partnerships, friendships and experiences it has built with state and federal biologists."

Cultural Diversity Committee Report

Jerry Berg and Lisa Stuby

The main activity of the Cultural Diversity Committee is to administer an annual travel award. This award helps fund entry-level biologists who are involved and/or interested in the field of fisheries to attend the annual Alaska Chapter meeting. It has seen some recent evolution. In 2004, we were faced with the dilemma of being able to pay for only part of the travel expenses for Mike Martz, due to the high cost of flying from his home in Bethel, to the meeting in Sitka. Luckily, Mike's supervisor paid for his travel, and we paid for housing, the banquet, and his AFS membership. We then had money left over to fund Tyler Dann, a master's student from UAS. To prevent future shortfalls, the endowment, of over \$12,000, was reinvested so that the interest earned can better meet the needs of the annual award. This reinvested endowment has increased the travel award by approximately 50 percent. A goal of this committee is to fund the travel of as many qualified individuals as possible to the yearly Chapter meeting. If a part of their costs are paid by their employer, then additional candidates can be funded. The support for the award by the Excom and the Chapter has been tremendous.

In 2005, as in past years, we solicited applications from around the state and discussed the upcoming award with many of the heads of the relevant organizations. We were excited to be able to share with young biologists the unique opportunity to attend the national meeting of AFS and listen to talks by fisheries biologists from around the world. Unfortunately, we received no applications. This was puzzling, as in past years we have received applications from many more qualified individuals than we have been able to accommodate. After discussions with potential applicants and their employers, we decided that the timing and length of the meeting are the most likely reasons there were no applicants. Field activities were still ongoing when the applications went out in August. Also, the 2005 meeting was from September 11-15, which is earlier and a little longer than the Chapter meetings. Lisa discussed the award with one potential candidate, who was concerned with missing a week of college classes so early in the semester. This process led us to come up with some new strategies for the travel award to the 2006 annual Alaska Chapter meeting in Fairbanks. This year we will:

- Send out the notice BEFORE the beginning of the summer, in April, so the word can get out and people can be thinking about this upcoming award before the busy summer.
- Follow up with a reminder later in the summer or early fall.
- Allow qualified, enthusiastic individuals who are unable to attend the full meeting due to work or school schedules, to attend for a shorter period.

The Cultural Diversity Committee invites ideas and suggestions from all Chapter members. Please help us get the word out for 2006! 🐟



2004 Cultural Diversity Committee recipient Mike Martz removes a scale while commercial catch sampling on the Kuskokwim River in summer of 2004.

Science Goes to the Villages in Southeast, Alaska, *Continued from Page 4*

Dr. Dolly Garza, Vice-chair of the Southeast Regional Advisory Council, under the Federal Subsistence Board, had this to say about the program: “The fishery research program which focuses on local research on important subsistence salmon streams is, in my opinion, one of the true highlights of federal subsistence management. The successes are multiple: Natives are being trained in basic fisheries research and are being encouraged into higher education opportunities; the state and federal agencies are

creating closer and important professional links with Tribes and communities; and the resource is benefiting. This is a win-win for all.”

These projects will hopefully continue to foster better communication between subsistence users and managers as they both strive to reach a common goal—providing subsistence fishing opportunities while sustaining viable sockeye populations for many generations to come. And who knows, these projects may even produce a few new fishery biologists. 🐟

New P/V Enforcer Commissioned

Dick Kauffman,

story and photo excerpted from <http://www.sitnews.us>

On July 15, 2005, the new Patrol Vessel Enforcer was commissioned by the Alaska Department of Public Safety (DPS). At a cost of \$1.2 million, the new 69.9-foot P/V Enforcer is replacing the retired 65-foot P/V Enforcer which was built in 1953 for the United States Navy.

The P/V Enforcer will be available to provide for public safety needs throughout Southeast Alaska. Enforcement of commercial fisheries and commercial hunting activities will be the main focus for its patrol efforts. P/V Enforcer will provide a stable platform for emergency responses, search and rescues, investigations, village visits and public safety education throughout the region.

The Enforcer is capable of completing long range and lengthy duration patrols. At its present duty station it will provide service from Dixon Entrance at the Canadian



border, north to Yakutat and out to the Fairweather grounds. During the course of a patrol year, this vessel and its patrol skiff will generally cover approximately 9,000 miles of coastline. The vessel will be utilized an average of 120 days of the year and is underway at least a few days almost every month of the year. Over the course of a year, the Troopers who are assigned duty aboard the P/V Enforcer will visit or make contacts in every community within Southeast Alaska.

The P/V Enforcer was designed and built by Kennedy Ship and Repair in Galveston, Texas. Her main focus will be patrolling commercial fisheries and hunting activities. She will also be used for emergency responses, search and rescues, investigations, village visits, and public safety education. Her crab pot puller, deck cranes, 17 foot skiff and fire fighting capabilities provide her with all the tools necessary to conduct resource enforcement and search and rescue missions as needed. ☹

New Book Releases from AFS

Effects of Urbanization on Stream Ecosystems

Larry R. Brown, Robert H. Gray, Robert M. Hughes, and Michael Meador, editors

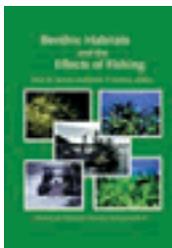
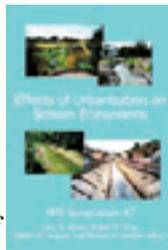
As human populations continue to grow, the effects of urbanization on streams and other habitats will become increasingly important to aquatic resource managers and land use planners. Urbanization of watersheds is almost invariably accompanied by loss and alteration of aquatic habitats, two of the most frequently mentioned causes for losses of aquatic biota.

This book includes a variety of case studies addressing the effects of urbanization on stream ecosystems at locations ranging from Brazil to Southern California to New York. Of special interest is a group of five papers resulting from an interdisciplinary comparative study of urbanization in Boston, Massachusetts, Birmingham, Alabama, and Salt Lake City, Utah. These papers address regional variations in study design and responses of habitat, benthic algae, benthic macro invertebrates, and fish to urban development.

Benthic Habitats and the Effects of Fishing

Peter W. Barnes and James P. Thomas, editors

Fishery resource managers face the challenge of ensuring sustainable fisheries and maintaining healthy, diverse ecosystems. This challenge can be met by advancing the scientific knowledge available to resource managers to evaluate and appropriately manage



fishing activities that affect benthic habitats. Government agencies have been working to develop benthic habitat research initiatives focused on the effects of fishing gear and the linkage between biological resources and the geology of benthic habitats.

This book provides the broad understanding of the effects of fishing activities on benthic habitats necessary to address the pressing issues of habitat alteration that challenge managers, practitioners, and ocean scientists.

Historical Changes in Large River Fish Assemblages of the Americas

John N. Rinne, Robert M. Hughes, and Bob Calamusso, editors

Dramatic changes have occurred in the functioning of larger rivers because of social values and policies, land use, in channel causes, and alien species. These changes have resulted in the reduction in range and abundance of many native fish species. This book describes the historical changes observed in the fish assemblages of 27 large rivers in North, Central, and South America. A synthesizing chapter highlights common and distinct patterns among the rivers and their stressors.

The book focuses on entire fish assemblages, including the many species that do not enter fisheries. It will be of interest to both fishery biologists and aquatic ecologists who are concerned with the status and trends in biodiversity and biointegrity. It contains historical information as well as new research and monitoring results, including research on metapopulations, genetics, and life history strategies. ☹



Awards

Cheryl Dion

The Chapter is soliciting members for the Awards Committee which is an *ad hoc* on-going committee of the Alaska Chapter. The committee was established by the Excom to recognize excellence in professional performance and outstanding contributions to Alaska fisheries. The Awards Committee is responsible for selecting the Meritorious Service Award, Alaska Chapter Service Award, and the Best Presentation Awards for papers and posters presented at the annual Alaska Chapter meeting. If you are interested in being a part of this committee, please contact Cheryl Dion at cheryl_dion@fws.gov or (907) 246-1231.



Bill Wilson receives an award from Cindy Hartman for his work in organizing the national meeting.

meeting. Since in 2005 the Chapter meeting was held in conjunction with the national meeting, judging of the awards was organized by the National Chapter. Mike Holliman from North Carolina State University took on the responsibility of coordinating the student paper and poster judging, the professional papers and posters were judged by the National Awards Committee. Two Best Paper Award recipients were selected from the presentations at the 2005 AFS Annual Meeting in Anchorage.

AFS/Sea Grant Outstanding Student Paper recipients are:

Beth Gardner, J. Patrick Sullivan, Stephen J. Morreale, and Sheryan P. Epperly “Spatio-temporal analyses of loggerhead sea turtle interactions with pelagic fisheries.”

Brandon J. Puckett, David H. Secor, and Se-Jong Ju “Growth and recruitment rates of juvenile blue crabs in Chesapeake Bay.”

Honorable Mention

Katie Bertrand and Keith Gido “Interactive effects of flood frequency and fishes on ecosystem structure and function.”

Brian Bellgraph, Christopher Guy, and Stephen Leathe “Resource overlap between sauger and walleye in the Missouri River, Montana: Implications for declining sauger populations.”

AFS Best Student Poster recipient is:

Cari-Ann Haye “Effects of gravel mining on detection probabilities for selected Mobile River Basin fishes.”

Honorable Mention

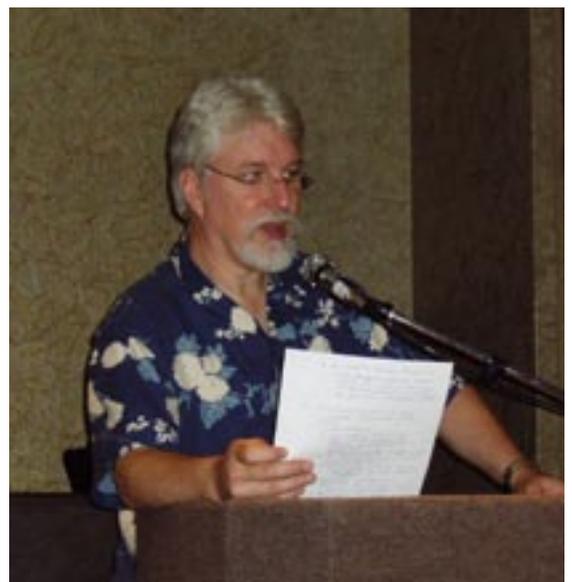
Donald Ratcliff, Wayne A. Wurtsbaugh, and Joseph Zustak “Does grass bed planting stimulate the food web and juvenile bass abundance in a drawdown reservoir?”



Scott Maclean gives Kyle Deerkop the Molly Ahlgren Scholarship Award plaque that will be displayed at Sheldon Jackson College.

The committee received two nominations during 2005 for the Meritorious Service Award and one for the Alaska Chapter Service Award. Committee members could not reach a unanimous decision for either award and decided not to present an award. The 2005 nominations will be considered again in 2006.

The awards committee is also responsible for selecting the best papers and posters presented at the annual Chapter



Last year's president, Hal Geiger, gives his outgoing address at the 2005 national meeting in Anchorage.

Oncorhynchus

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Student Unit President Kyle Deerkop, Sheldon Jackson College-225 801 Lincoln Street, Sitka 99835, kdeerkop@yahoo.com

Feel free to contact the Executive Committee members.

2006 AFS Membership Application

You can JOIN the AFS and the Alaska Chapter on-line (or by fax/phone), see <http://www.fisheries.org/html/membership/choicenew.shtml> for details, or fill out the application form and process as noted below.

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 drawn on a U.S. bank.

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 _____ Email _____

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)**: \$19.00 (Other than North America, \$22.00)
 Young Professional***: \$38.00
 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
 \$43.00 Paper in North America \$48.00 Paper other than N.A.
 \$25.00 E-Pub via WWW/Internet
 North American Journal Journal of Aquatic Animal Health¹
 \$38.00 Paper in North America \$41.00 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).

*** Within 3 years of graduation.

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.