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Hutton Jr. Fisheries Biology Program

Alaska Chapter Annual Conference

"Monty" Millard

And more . . .



Sockeye salmon making waves in Ugashik Narrows.



Continuing Education

Debby Burwen

We will be offering four short courses at the 2003 meeting. I hope there is something for everyone in the following courses.

The first course "**Basic GIS Techniques for Fish Biologists**" is currently scheduled for Saturday November 18, 8:00AM - 5:00 PM at the University of Alaska, Fairbanks GIS lab. This course is designed to provide basic skills in using Geographic Information Systems (ArcGIS8.x) for fisheries biologists. The course will teach participants basic GIS skills using examples common to fisheries problems. These skills include importing a base map and other map layers; creating data tables and importing data from other sources; creating point, line, and polygon themes; an overview of map projections and map coordinate systems. Workshop topics will include:

- 1) Maps, map coordinates, map projections.
- 2) GIS, map layers / themes, layer types (point, line, polygon), and formats (vector, raster).
- 3) Databases, spreadsheets, text files, geo-referencing data, adding and converting coordinates, record

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Sensible Salmon

Nick Hughes

Natural selection has resulted in the evolution of salmon that can migrate upstream economically producing some impressive anatomical, physiological and behavioral adaptations. In this short article I'll discuss some of their behavioral adaptations for energy conservation.

One of the most important economic decisions a migrating salmon makes is how fast to swim. Rather surprisingly analysis suggests there is a single ground speed that minimizes the cost-per-unit-distance traveled, irrespective of current speed. The cost-minimizing ground speed for a 2.5 kg sockeye salmon is predicted to be about 0.5 m/s and the cost minimizing speed for a 25 kg chinook about 0.8 m/s. Of course fish that are in a hurry to reach the spawning grounds may swim faster, but generally fish should time their entry into the river to allow upstream migration at the most economical speed, especially when their migration is a long one.

The energy needed to maintain this ground speed will depend on the speed of the current, and, all else being equal, salmon should swim upstream close to the bank or the stream bed, where friction reduces current speed. They should also take advantage of local flow reversals in back eddies and the oscillations in current speed associated with tidal fluctuations in downstream reaches. One fascinating new discovery by Scott Hinch and Em Standen at the University of British Columbia demonstrates that salmon can also extract energy from the small-scale flow reversals associated with turbulence. The relative importance of this energy subsidy appears to decrease with increasing current speed, but, in slow water, fish may pay less to swim upstream than they would in still water. Fish themselves generate a trail of spinning vortices as they swim, and it's likely that members of a group can extract energy from these if they swim in the correct formation. As a result the lead fish should have a higher tailbeat frequency and shorter stride length (distance covered per tailbeat) than trailing fish.

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The President's Column

Carol Kerklvit

I recently hired a technician to work as a crewmember tagging salmon on the Kuskokwim River. During our interview, I learned that this type of work had been her dream but she never knew such jobs existed. Her story highlights how a few discouraging words can suppress a dream.



She was a college student majoring in marine biology at a prominent school in one of the southwestern states. One day a professor addressed an auditorium of marine biology and fisheries students and said that if their dream was to “swim with the dolphins, it just wasn’t going to happen.” Afterwards, this young student changed her major, and instead of a degree in marine biology, she earned a degree in maritime administration. Her response was not an isolated case; several of her friends also switched majors.

I suspect this professor was trying to remove the “rose color glasses” that are commonly worn by students and prepare them for harsh realities of the “real world”. I also suspect the professor was also communicating harsh disappointments from his or her own career. To me this is a tragedy. Not only did this help dismantle a dream; it also helped to reduce the workforce of the future. The professor did not provide positive statements such as ... even though you may not be able to swim with dolphins, you can find work that is just as rewarding and meaningful in marine biology and fisheries.

Currently, we have a shortage of people entering our field. AFS has several programs aimed at recruiting individuals into our profession. The Cultural Diversity Travel Award Program provides opportunities to attend the annual meeting for individuals who are under represented in our membership. The Hutton Program exposes young people from high school and native

communities to participate in fisheries projects. The Mentorship Program encourages fisheries professionals to mentor college students and pay for a one-year AFS membership. The leaders of these programs have worked extremely hard to insure these programs provide positive and unbiased insights into our profession.

These programs can only do so much. We who are in this profession also need to take responsibility for recruiting new talent. Please be aware of how you may influence the dreams and the paths of others. We need to choose our words wisely and create an environment of encouragement. By providing unbiased information, we will not allow our own career disappointments to tarnish the dreams of others. We need to do these things for the future health of our fisheries and the environment.

The technician I hired may not go back to school to earn a degree in marine biology or fisheries, however, I do believe she can pursue her dream and find a fulfilling and rewarding career in the fisheries field. My responsibility is to provide information that will expand her choices in her pursuit. ☺

Sensible Salmon, Continued from Page 1

Current speed is not the only factor that determines the cost of maintaining the cost-minimizing ground speed. Wave drag may also be an important consideration. This is the drag that is generated when a fish swims close enough to the surface to create waves. The cost of generating these waves can be considerable; when a fish rapidly swims immediately under the surface the total drag it experiences may be five times higher than if it swam at the same speed well submerged. Experimental work suggests that fish should swim at least three body diameters beneath the surface to avoid wave drag. If we allow for an additional body depth between the fish’s midline and the river bed then the minimum water depth required to avoid wave drag should be about four body diameters, this is about 0.7 m for a 2.5 kg sockeye and about 1.5 m for a 25 kg chinook. As a consequence large fish should swim upstream further from the banks and in deeper water than smaller ones, even if they have to swim against faster water as a result. One rather fascinating aspect of wave drag is that hydrodynamic theory suggests that the waves generated by different fish can cancel out, reducing or eliminating wave drag. According to this theory there is a particular horizontal spacing, and submergence depth at which this cancellation is likely to be most effective. It would be interesting to know if fish exploit this effect.

These are just some of the tricks that salmon may use to minimize their energy expenditure while migrating upstream. I hope reading about them will add to your enjoyment next time you are watching salmon making their way home. ☺

ONCORHYNCHUS

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Alaska Chapter's Internet Home Page Address

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Obituary

“Monty” Millard, brought “Coffee Cup Diplomacy” to Fishery Management

Jack “Monty” Millard, an employee of the U.S. Fish and Wildlife Service who was instrumental in charting the course of the Service’s fisheries program in northern Alaska during the last decade, passed away on April 28, 2002 in Costa Rica. He was 59 years old. Although he had officially retired in July of 2001, Monty had been working to establish a conservation foundation in Costa Rica, taking time off on occasion to pursue his lifelong passion for pheasant hunting in the American Midwest.

His Service career spanned almost forty years, with the first decades spent working in a variety of fisheries positions across the Midwest and South. During that period he served as President of the Texas Chapter of the American Fisheries Society and, while working on cool, warm and cold-water hatchery facilities, developed a broad understanding of, and did much to advance the state of, American fish hatchery management. It was during these diverse assignments, which took him from Texas to North Dakota to Kansas to New Mexico, that Monty not only honed his scientific skills but also developed an impressive ability to work with diverse groups of stakeholders to craft mutually agreeable solutions...solutions that would benefit the local fishery resources as well as the people that enjoyed or relied upon them.

He found ample use for both his scientific and his communications skills when he accepted a position as Project Leader of the Fairbanks Fisheries Resource Project in 1989, a job he held until his retirement 12 years later. Monty’s Alaska colleagues remember most vividly his “coffee cup diplomacy.” He was a firm believer in working with people on an individual basis, and proved time and time again that one-to-one communication can resolve differences that could seldom be overcome in more formal settings. Mutual respect is, of course, key to success in that sort of consultation, and in the course of his career Monty became both known and respected by subsistence communities, representatives of the various concerned agencies and other residents all along the Yukon River Drainage.

This respect helped him work with a variety of stakeholders while negotiating the Yukon River Salmon Agreement with Canada in 2001. Monty probably faced his greatest test when he accepted the challenge of being the first Federal manager of subsistence fisheries for the Yukon River, willingly taking on that herculean task despite the fact the job was made all the more difficult because local salmon runs were on the verge of collapse. The trust that federal subsistence management generally enjoys in that region to this day owes much to Monty’s straight talk, honesty and unflinching commitment to the fishery resource.

Monty is survived by his wife, daughter, and parents. He was a true friend of the Fish and Wildlife Service, a champion of the conservation of fishery resources, and a valued mentor to many who were fortunate enough to work alongside him.



Meetings and Events

2004 Ocean Research Conference

This conference will be held February 15-20, 2004 in Honolulu, Hawaii and is co-sponsored by the American Society of Limnology and Oceanography and The Oceanography Society. The Ocean Research Conference will provide a forum for researchers to highlight recent advances with an emphasis on the integration of aquatic sciences as well as the breadth of ocean research including engineering, industrial, public policy and marine research. Not only does the mid-Pacific location of Honolulu offer extraordinary beauty and global appeal, Hawaii's tropical paradise is a natural wonder when it comes to aquatic research. This inaugural meeting will bring together the strengths of these two societies and will allow an open exchange of information on issues surrounding ocean research. Abstract submission deadline is October 1, 2003. For more information please contact Helen Schneider Lemay, Registration Coordinator and Meeting Manager, ASLO Business Office, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446. Phone: 254-399-9635, Toll-Free: 800-929-ASLO, Fax: 254-776-3767 or e-mail: business@aslo.org.

4th World Fisheries Congress

This is the first announcement of a call for abstracts for the 4th World Fisheries Congress, to be held in Vancouver, British Columbia, Canada, May 2-6, 2004. The call for abstracts has opened, with over 40 topics related to the Congress theme. Online submissions are encouraged with instructions at the event website: www.worldfisheries2004.org/abstract/abstract.htm.

Posters will be the main communication medium of the Congress and will be given prominence. Oral presentations will be selected from the oral/poster submissions. These papers will be presented in concurrent sessions conducted over the four days of the Congress. Oral and poster presentations will be given equal status for subsequent publication in the proceedings. All submissions must address the Congress theme, *Reconciling Fisheries with Conservation: The Challenge of Managing Aquatic Ecosystems*.

Education and training workshops will be provided by highly-qualified instructors, and will be available for participants to attend immediately before and after the Congress. More information about the workshops is available at the event web site: www.worldfisheries2004.org/education/education.htm.

If you have not already done so, please visit our web site and fill out an Expression of Interest Form that will allow us to keep you updated about the Congress: www.stargate.ca/worldfisheries2004/index.htm.

Introduction to Resampling Methods: Online Seminar

From Sept. 15-Oct. 13, Dr. Phillip Good, a former traveling lecturer for the American Statistical Association, will be giving an online seminar on practical applications of the bootstrap and permutation tests. During this 4-week internet seminar hosted by statistics.com, participants will

do interval estimation, one-, two- and k-sample comparisons, correlation, and a number of other most-powerful exact statistical procedures. The goal of the course is to give participants the confidence and tools necessary for the practice of statistics in their own research and in interpreting the research of others.

Participants will interact with the instructor and fellow students via an online bulletin board throughout the seminar on their own schedule. Aside from this threaded discussion board, no special computer or internet capabilities (e.g. video or net conferencing) are required. The seminar should take 5-10 hours per week, arranged at participant's own convenience. Students are encouraged to submit their own findings for possible discussion.

The course cost includes free use of Resampling Stats standalone software, during and immediately after the course. Participants may purchase Resampling Stats software at any point during the course at a discounted price. For more details or to sign up, visit <http://www.statistics.com/content/courses/resampling/index.html>.

Managing Our Nation's Marine Fisheries

Mark your calendar and save the date to attend the first-ever fisheries management conference co-sponsored by the eight Regional Fishery Management Councils and the National Marine Fisheries Service (NOAA Fisheries). The conference is open to the public and will be held in Washington, D.C., Nov. 13-15, 2003 at the Omni-Shoreham Hotel and Conference Center, 2500 Calvert Street, Washington D.C. Advance registration is requested and attendance is free of charge.

The conference, titled *Managing Our Nation's Marine Fisheries – Past, Present, and Future*, promises to be an educational and insightful experience. Whether you are a fisherman, an environmental advocate, a policymaker or a reporter who covers the fisheries beat, the conference sessions are pertinent and informative as Congress considers the re-authorization of the Magnuson-Stevens Fishery Conservation and Management Act, which governs management decisions for our nation's marine fisheries.

The conference aims to educate the public and the media on the fishery management process and current management research initiatives, and to help bridge the gap between perception and reality regarding management of our nation's fisheries. The conference also will provide a forum for information exchange and examination of a wide range of perspectives on future management and marine research directions.

Whether you are interested in regional bycatch issues, have concerns about human impacts on fish habitats, want to learn more about ecosystem management, marine research or conservation of protected species, you will find what you are looking for this November in Washington, D.C. The conference will offer the opportunity to meet with Council executive directors and chairmen, as well as others involved in living marine resource management.

Hutton Junior Fisheries Biology program

Saree Timmons

The Alaska Department of Fish and Game, Sport Fish Division, has participated in the American Fisheries Society Hutton Junior Fisheries Biologist program since its inception in 2001. High school students apply to and are selected by the national AFS office for this mentorship program. Selected students are then placed with experienced fishery biologist mentors who arrange experiences and work schedules for the students. Students work a minimum of eight weeks during the summer.

During the first year of the program we had one student, Jason Lynch, who had just completed 10th grade. Fishery biologist Debby Burwen was Jason's mentor. Jason participated in a variety of activities designed to give him a broad perspective on the various types of fisheries-related research and management programs conducted in southcentral Alaska by Sport Fish Division, primarily programs designed to assess returns of adult salmon to their spawning grounds. Students may reapply to the program, so Jason participated for a second summer in 2002 under mentors Diane Loopstra and Dan Bosch. These biologists mentored Jason through projects that gave him a more in-depth look at fisheries research and management. Jason relayed to his mentors that his experience with the Division had a definite impact on his plans for the future. He hadn't realized there were opportunities in the field of fisheries where he could combine his love for the outdoors with a career. He had not previously considered going to college, but now plans to pursue a college education. This summer, Jason is a college intern with the Division through the State of Alaska's college intern program, and will attend the University of Alaska Anchorage this fall.

Daryl Lescanec was the second student to participate in the Hutton Program with Sport Fish Division. In 2002, Daryl worked under mentor Jeff Milton primarily with the Division's hatchery program. Daryl assisted with raising rainbow trout in the hatchery as well stocking fish in the field. Daryl stated that the most important thing he learned during his mentorship was to find a job that you enjoy doing. After finishing his mentorship in 2002, Daryl continued working for the Division's hatchery program during the school year and during summer 2003.

In 2003, the Division has three students participating in the program. Aaron Tiernan is a junior at Service High School in Anchorage. He worked as a student intern in the Sport Fish Info Center last summer, and is planning on pursuing a degree in fisheries at UAF. Aaron will be working with mentors Dan Bosch and Diane Loopstra on projects in the Anchorage vicinity this summer. Heidi Biggs is finishing her senior year, and is from Soldotna High School. She will be working with mentor Bruce King on the Kenai Peninsula. The third student, Taryn O'Conner, grew up in the Bristol Bay area and is a home-schooled sophomore in Dillingham. Taryn hopes to remain in the Bristol Bay area, but would like to pursue a career in fisheries or wildlife biology. Taryn will be working with mentor Jason Dye on fisheries research and management projects in Bristol Bay.

The Hutton Junior Fisheries Biologist Program has been a positive experience for both students and mentors in Sport Fish Division. We would encourage other agencies to provide funding and mentors for this worthy program. For more information contact Saree Timmons at 907-267-2518 or email: saree_timmons@fishgame.state.ak.us.



Continuing Education, Continued from Page 1

organization, exporting / importing data, and creating data tables.

We will also offer **"Advanced GIS techniques for Fish Biologists"** on Sunday November 19, 8:00 AM-5:00 PM. This course is planned to provide advanced skills in using GIS for analyzing fish communities. The course will consist of lecture, discussion, and specific exercises. Participants will be able to:

- 4) Convert vector & raster formats.
- 5) Use raster format for variable data, x,y,z coordinates, digital elevation models (DEMs), slope and path functions.
- 6) Manipulate themes using intersect, union, and split functions.
- 7) Import aerial / satellite photos, overlay DEMs.
- 8) Create spatial analysis; analyze slope and gradients, proximity and nearness, movement and home range.
- 9) Analyze geostatistics, correlation, and proximity.

The instructor for both courses is Michael Porter who taught the basic class at the 2002 National AFS meeting and will be teaching both basic and advanced courses in Quebec at the 2003 National AFS meeting. We are looking

for someone with an ArcGIS background to help out with these courses (assist with Lab exercises). Please let me know if you are interested!

The third course is a **"Basic ACCESS 2000"** course. Kim Gray of the Alaska Computer Training Center will teach the course on November 20, 9:00AM-5:00PM. This course will cover a number of practical skills in ACCESS including designing\creating\using databases, tables, forms, queries, and reports.

The fourth course, **"Effective Communication with the Press and Public"** will be offered on November 20, 1:00PM-5:00PM. Lisa Olson, head of the Information and Education Section for Alaska Department of Fish and Game Sport Fish Division, will teach the course. She will cover such topics as writing press releases, developing informational leaflets and materials for public consumption, etc.

Please contact Debby Burwen, debby_burwen@fishgame.state.ak.us, 267-2225, if you have any questions or if you can help out with our GIS courses. Also, I am always interested in hearing suggestions for future courses.

Second Call for papers: Annual Chapter Annual Conference

Ecological and Sociological Linkages in Fisheries

Tim Joyce

Sessions and presentations are being planned for the Annual Conference of the Alaska Chapter of AFS to be held on November 4 – 6 in Fairbanks at the Wedgewood Resort. The session chairs are getting presenters lined up and some of the sessions are starting to fill up. If you have a presentation for a specific session, contact the session chair soon to insure that you have an opportunity to present. If you have a presentation that may not fit into one of the sessions, you can still present in the Contributed Paper session. Titles need to be submitted to the session chairs early to insure a place in the session. Abstracts need to be submitted by September 1, 2003. Abstracts should be a single paragraph not more than 300 words in length and should follow the format described in the AFS guide to authors.

Several Continuing Education classes are planned for the days preceding the conference. Debby Burwin is coordinating the Continuing Education classes this year. Check out the article on Continuing Education, and if you have any questions please contact Debby.

The Plenary Session speaker will be Lionel Johnson for British Columbia, Canada. He is well known for his work on the thermal dynamics within ecosystems, which will be the topic of his presentation. I am looking forward to meeting him and listening to his presentation.

The last call for papers will be announced and registration forms will be available in August. Alaska Airlines is offering a 10% discount for travelers to Fairbanks to attend the Alaska Chapter conference. Those of you wishing to make your reservations in advance please tell your travel agent or ticket agent that your fare basis is CMR6358. This will allow a 10% discount on all published excursion fares and fares booked in "Y" or "F" inventory to Fairbanks for the AFS conference. Travel dates for these fares must be between October 31 and November 9, 2003.

The Fairbanks Chamber of Commerce can provide for short excursions for those wanting to bring spouses or those wanting to stay a few days after the meeting. Information on Fairbanks activities can be found at www.explorefairbanks.com. More details on other activities will be presented in the Fall issue of *Oncorhynchus*. If you have any questions please contact Tim Joyce, USFS; e-mail tljoyce@fs.fed.us or phone (907) 424-4747.

Plenary Speaker

Lionel Johnson: Thermal dynamic interactions within an ecosystem.

Sessions

Please note that the titles listed may change as the sessions and presentations develop. Additional titles will be added to these sessions as they are submitted.

Session Title: Recent Advances in Marine Biology

Session Chair: Dan Urban, Alaska Department of Fish and Game, e-mail:

dan_urban@fishgame.state.ak.us or phone: (907) 486-1849.

Planned Session Speakers (thus far):

Peter van Tamelen: Climatic effects on crab discard mortality and implications for fisheries management.

Kirsten Gravel: Bering Sea snow crab investigations.

Dan Urban: Pacific cod predation on Tanner crab in Marmot Bay, Kodiak.

Jeffrey Barnhart and Scott Carpenter: Warm-water annual checks in weathervane scallops, *Patinopecten caurinus*.

Session Title: Marine Habitat

Session Chair: Alisa Abookire, National Marine Fisheries Service, e-mail: alisa.abookire@noaa.gov or phone: (907) 481-1735.

Planned Session Speakers (thus far):

Sue Saupe: Shore Zone Mapping methods and capabilities.

Dan Urban: Hydroacoustics as a marine habitat mapping tool.

Session Title: Aquatic Invaders in Alaska

Session Co-Chair: Denny Lassuy, PhD. Regional Invasives Coordinator, U.S. Fish and Wildlife Service, 1011 E. Tudor Road, Anchorage, AK 99503, e-mail: denny_lassuy@fws.gov or Phone: (907) 786-3813, Fax: (907) 786-3350.

Planned Session Speakers (thus far):

Robert Piorkowski: Invasive species and you – Implementing the Alaska aquatic nuisance species management plan.

Denny Lassuy: Lessons from the Lower 48: sport fish, good intentions, and native losses.

Session Title: Managing Salmon Populations for Sustained Yield in Large Riverine Systems Throughout the Pacific Northwest: Who's Foolin Who?

Session Chair: Charlie Swanton, Alaska Department of Fish and Game, e-mail: Charles_Swanton@fishgame.state.ak.us or phone: (907) 459-7225.

Planned Session Speakers (thus far):

Dan Bergstrom/Tracy Lingnau: Subsistence and commercial salmon fishery management for the Yukon River.

Craig Whitmore/Bob Lafferty: Subsistence, commercial and sport salmon fishery management for the Kuskokwim River.

Dan Ashe/Tom Taube: Subsistence, commercial and sport salmon fishery management for the Copper River.

Kathleen Jensen: The utility of mark-recapture data for inseason salmon management on the Taku, Stikine, and Alsek Rivers.

Session Title: Habitat Protection and Habitat Restoration: Complementary Approaches to Sustainable Fisheries

Session Chair: Cecil Rich, Alaska Department of Fish and Game, Habitat and Restoration Division, e-mail: cecil_rich@fishgame.state.ak.us, or phone: (907) 267-2122.

Planned Session Speakers (thus far):

Jeff Davis: Does restoration fill the regulatory gaps?

Session Title: Fisheries Monitoring Partnerships with Tribal and Rural Organizations

Session Chair: Steve Klein, Chief, Fisheries Information Services, Office of Subsistence Management, U.S. Fish and Wildlife Service, 3601 C Street, Suite 1030, Anchorage, AK 99503, e-mail: steve_klein@fws.gov or phone: (907) 786-3605.

Planned Session Speakers (thus far)

Herbert D. G. Maschner and Katherine L. Reedy-Maschner: Salmon, subsistence, and indigenous commercial economies on the North Pacific: No one fishes just for food anymore.

Erica McCall: Tradition shines through: subsistence-style fish wheel use in the Copper River chinook salmon monitoring project.

Catherine Moncrieff, John K. Wenberg and David Wiswar: Phenotypic characterization of chinook salmon in the Yukon River.

Judy Ramos and Rachel Mason: Tlingit tradition knowledge and clan management of sockeye salmon in Dry Bay, southeastern Alaska.

Session Title: Spatial Analysis and GIS, How It Can Be Applied to Fisheries Management

Session Chair: Samantha Greenwood, U.S. Forest Service, P.O. Box 280, Cordova, AK 99574, email: sgreenwood@fs.fed.us or phone: (907) 424-4740.

Planned Session Speakers (thus far):

Dirk Lang: Using GPS and GIS to map cutthroat spawning habitat.

Gordon Reeves: Using GIS to get the big picture, an Oregon example.

Samantha Greenwood: Quantifying habitat change in beaver ponds using low level digital photos, GPS and Arcview.

Session Title: Carrying Capacity for Salmon in Marine Habitats

Session Chair: Alex Wertheimer, National Marine Fisheries Service, Auke Bay Laboratory, 11305 Glacier Highway, Juneau, AK 99801, e-mail: Alex.Wertheimer@noaa.gov or phone: (907) 789-6040.

Planned Session Speakers (thus far):

Alex Wertheimer: Does size matter for Prince William Sound pink salmon?

Joe Orsi: Hatchery and wild stock interactions of juvenile chum salmon in marine waters of southeastern Alaska: A bioenergetics approach.

Additional Sessions

The following sessions are planned and some were not advertised in the Spring issue of *Oncorhynchus*, but are planned for this year's conference, and some titles have already been submitted. Please contact the following session chairs if you are interested in presenting your work or to provide input into developing these topics:

Session Title: Suburban Development in the Riparian Zone

Session Chair: Tom Paragi, Alaska Department of Fish and Game, Division of Wildlife Conservation, 1300 College Road, Fairbanks, 99701, e-mail: tom_paragi@fishgame.state.ak.us or phone: (907) 459-7327.

Description: This 4-hour invited session is being organized by Fairbanks members of the Alaska Society of American Foresters and Alaska Chapter of The Wildlife Society. Our goal is to encourage communication and problem solving across the disciplines of forestry, fisheries biology, and wildlife biology. We will invite 7-8 speakers to present various viewpoints for 15-20 minutes on regulatory standards in suburban development and how they affect fish and wildlife habitat and forest management along rivers near urban Alaska. Anticipated speakers will likely include knowledgeable individuals from the Army Corp of Engineers, DEC Water Quality, DNR Forestry, DNR Lands, an engineering firm that represents developers, the planning section of the Fairbanks North Star Borough, a wildlife agency, a fisheries agency, and an Alaskan metropolitan government outside of Fairbanks.

Session Title: Contributed Paper

Session Chair: Bill Smoker, Division of Fisheries, UAF School of Fisheries & Ocean Sciences, Juneau, Alaska, e-mail: Bill.Smoker@uaf.edu or phone: (907) 465-6441.

Description: Presenters with topics that do not fit the subject matter of the other sessions are encouraged to submit their abstracts to this session.

Session Title: Status of Western Native Fishes Project: An Introduction and Evaluation of its Applicability to Alaska

Session Chair: Michael Wiedmer, Alaska Department of Fish and Game, e-mail: mike_wiedmer@fishgame.state.ak.us or phone: (907) 267-2292.

Description: This session will introduce the American Fisheries Society, Western Division's *Status of Western Native Fishes Project*, and discuss its application in Alaska. The Western Division has initiated this project to assess the status of freshwater, non-anadromous fishes of western North America. The project is intended to compliment other, related projects that have assessed the status of western anadromous salmonids (Nehlsen *et al.* 1991, Slaney *et al.* 1996, Warren *et al.* 2000, Taylor *et al.* 1996, Huntington *et al.* 1998, and Baker *et al.* 1999) and marine fisheries resources (Musick *et al.* 2001). The Western Division desires to collect detailed information on the status of western native fishes for a number of reasons. First, such information is needed to identify species and populations at risk throughout western North America. In addition, information on the status of inland fishes is needed to evaluate the efficacy and potential impacts of recovery plans that have been developed or are being developed to facilitate the recovery of anadromous fish populations listed under the Endangered Species Act. Furthermore, such information is needed to identify key data gaps and to help focus limited state and federal resources on the most appropriate areas (i.e., river basins, species, and stocks). Papers are invited that relate to the status of inland native fishes, including an evaluation of their distribution and abundance relative to known historic conditions.

Session Title: Human Dimensions of Fisheries Management

Session Chair: Martin Robards, University of Alaska, Anchorage, Department of Biology, 3211 Providence Drive, Anchorage, Alaska 99508. e-mail: mro@uaa.alaska.edu.

Description: Irrespective of scientific data on the biophysical environment, management decisions about fisheries are frequently guided by social and cultural norms and perceptions. However, the scientific quantification of linkages between the social and biophysical sciences is still rudimentary. This session will provide an opportunity to share pertinent research and developments in this field that are of importance to management decisions in Alaska. Our goal in this two-hour session is to provide an overview of current trends in linking social and ecological system science, including Alaskan case studies in commercial and recreational fishing.

Poster Session

Session Chair: Stephen Fried, U.S. Fish and Wildlife Service, Office of Subsistence Management, e-mail: Stephen_fried@fws.gov or phone: (907) 786-3824.

Description: Contributors interested in presenting their work with a poster should submit abstracts to this session. While posters addressing topics concerning ecological and sociological linkages in fisheries are particularly sought, posters addressing other subject matters are also welcome.

Oncorhynchus

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Student Unit President Kristin Cieciel, University of Alaska Fairbanks, Juneau Center for Fisheries & Ocean Sciences, Phone: 465-8572, K.Cieciel@uaf.edu

Feel free to contact the Executive Committee members.

2003 AFS Membership Application

Print or type applicant's name in full

Address

City

State

Zip Code

Nation

Membership year*

Please provide phone numbers for directory and Society use only:

Home _____ Work _____

Fax _____ Email _____

Employed by:

federal govt. 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)

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.

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

Journal Subscriptions (Optional)

Transactions of the AFS ¹ NA. Journal of Fisheries Management ¹

\$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 Health ¹

\$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.