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*Ultrasound image showing a cross sectional view of the eggs in a female cutthroat trout.*

## The Gathering: Leopold's Legacy for Fisheries

Tim Joyce

The title of this article was the theme of this year's National AFS meeting. The Wisconsin area was the home of Aldo Leopold, a wildlife biologist who was best known for his land ethic. Aldo defined the land as "a community," which included the fish, water, soils, plants and animals all interlocking into one community, one biota. Aldo was an ecologist, 50 years before ecosystem management became a buzz word. Aldo understood and taught that the health of our waters is the principal measure of how we live on the land. If you think about that concept for a minute, you will see just how true it is.

Continued on page 2



*Bonita Nelson from the Auke Bay Laboratory describing her poster at the 2004 National AFS meeting in Madison, WI.*

## Evaluation of Ultrasound for Determining the Sex and Maturity Status of Cutthroat Trout

Peter Bangs

The sport fishing regulations for cutthroat and rainbow trout (*Oncorhynchus clarki*, *O. mykiss*) in southeast Alaska are comprised of minimum size limits and bag/possession limits. The minimum size limits are designed to protect the majority of trout until they have spawned at least once, thus sexual maturity rates relative to fish length are important for establishing appropriate size limits. Our studies have shown considerable variability in length at maturity among various trout populations, prompting us to continue our research efforts to better understand this variability and to evaluate the appropriateness and effectiveness of our sport fishing regulations.

In previous maturity studies, we sacrificed fish in order to positively determine sex and maturity status; however, this approach precluded sampling in populations that were small or had other management concerns, and biologists were concerned over potential public opposition to destructive sampling. In an effort to identify alternative, non-lethal techniques, we initiated a pilot study to evaluate the use of ultrasound machines for determining the sex and maturity status of cutthroat trout.

Ultrasound imaging, or ultrasonography, is based on the pulse echo method, where a brief pulse of high frequency sound waves is transmitted into the body, and as the sound reaches tissues or tissue planes, a portion of the sound echoes back to the transducer. Ultrasound machines have been used in fisheries research for about 20 years, though their use has not been widespread. Recent technological advances have dramatically improved the performance, portability, and practicality of the machines. The machine we used, the Sonosite 180PLUS, is smaller than a laptop computer, weighs about 5 pounds, and operates on a rechargeable lithium-ion battery pack.

In April 2004, we used ultrasonography on 63 cutthroat trout from Florence Lake on Admiralty Island. We found that ultrasonography was an effective method for identifying mature females, but we were unable to distinguish the sex of immature fish due to the small size of their gonads. Testes in mature male cutthroat

Continued on page 2

## The President's Column

Tim Joyce

This is my last column in *Oncorhynchus* as president of the Alaska Chapter of the AFS. The time seems to fly by, but I think we, as a chapter, have accomplished many things during the year. As you all know, the Alaska Chapter, along with the Western Division is hosting the national AFS meeting in Anchorage in 2005. I was at the national meeting in Madison, WI this year and there is a lot of excitement about the Anchorage meeting. My hat is off to the organizers of the 2005 meeting as it is and continues to be a complex and daunting task.

The Past-Presidents provided the Alaska Chapter with a fiscal plan last winter, which provided the with some guidelines regarding the Chapter finances. After talking to a variety of financial institutions, the Chapter is just about to put some of our funds into low risk investments that will put our savings to work so that each year we will have funds available for our awards. The Executive Committee recently approved putting before the general membership at our business meeting in Sitka, a proposal to increase the amount of money in the endowments of both the Cultural Diversity and the Wally Noerenberg Awards. The current value of each of these accounts is approximately \$12,000. The proposal is to increase each account to \$15,000. This increased amount in these two accounts under the new investment plan should generate enough revenue to fund both awards at adequate levels. This funding level is important since we needed to provide \$700 from our general fund this year to fund a Cultural Diversity Award. We will also need to provide general fund money for the Wally Noerenberg Award. Our current investments did not come anywhere near what is needed for these awards. Please make plans to attend the business meeting in Sitka to learn more about our financial plan and awards.

Last year saw the official acceptance of the Sheldon Jackson campus unit into the Alaska Chapter student subunit, joining the Juneau and Fairbanks campus units. The Sheldon Jackson campus unit representative, Kyle Deerkop, is the voting member on the Excomm this year. He will be contacting the other campus units regularly for updates and issues to bring before the ExComm. The University of Alaska – Anchorage is also working on forming a campus unit. The chapter is growing, and best of all we are involving more students.

Don't forget to plan your travel now to the Sitka meeting of the Alaska Chapter of AFS from November 16–18. Also, check out the Continuing Education courses that are being offered just before the meeting. Register early and save as well. See you in Sitka. ☺



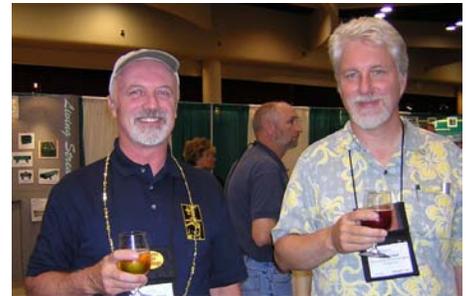
**Evaluation of ultrasound**, from page 1  
trout can also be relatively small (< 2 mm in diameter) and were not consistently identifiable. In my experience, steelhead trout and larger rainbow trout were much easier to sex with ultrasonography because they tend to have larger gonads and higher fecundity than cutthroat trout.

Although ultrasonography was only partially successful in sexing cutthroat trout, the technique could be useful for identifying mature females in maturity studies, thereby reducing the number of fish that need to be sacrificed. Alternative methods are available for some species to determine sex in a non-lethal manner (e.g., sex-specific molecular markers for chinook salmon); however, ultrasonography may be preferred because sex could be determined immediately in the field. Ultrasonography may also be useful for other applications, such as measuring eggs or checking the placement of radio transmitters. The upfront cost of the ultrasound machine is expensive (\$5,000 - \$18,000) but no additional supplies are needed, which eliminates subsequent operating costs. ☺

### The Gathering, from page 1

The national meeting of the AFS in 2004 was held in Madison, Wisconsin in late August. My hat is off to those that organized this meeting as it went off without a hitch. Bringing over 1,500 scientists together in one building, having 17 concurrent sessions and 700 presentations as well as the poster presentations and social events certainly was not an easy task, but those involved did it. It gives me a much better appreciation of the amount of work that the Alaska Committee is undertaking to prepare for the 2005 meeting in Anchorage.

With so many sessions occurring at one time, it sometimes became difficult to choose which one to attend, but believe me there were



*Alaska AFS president Tim Joyce and Vice President Hal Geiger enjoying the trade show at the 2004 AFS meeting in Madison, WI.*

topics for everyone, and I learned something new at each presentation. The social events were exceptional as well. I had not been to Wisconsin prior to this meeting, but now I can say I have had some fine Wisconsin “brats and beer.” I was also able to obtain some “squeaky cheese curds,” which everyone should try at some point in their life. These social events are an important aspect to these meetings. People with similar interest and issues that come from different parts of the country are able to meet and talk, each bringing with them a slightly different perspective. In at least two instances, I found in a conversation with someone I had never met before that I knew of someone else in Alaska who was doing or had done research on their topic, and I was able to connect them to share ideas. Sharing knowledge and experience is what these meetings are really about. Every participant gained something at Madison and I am sure that they will do the same in Anchorage in 2005. ☺

### 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 Dec. 10.

**Alaska Chapter's Internet Home Page Address**

<http://www.fisheries.org/afs-ak/>

## Homer Student Named Hutton Scholar

*Bill Bechtol*

Britta Baechler has been chosen as a scholarship recipient in the 2004 Hutton Junior Fisheries Biology Program, an innovative education program developed by the AFS. The Hutton Program was designed primarily to stimulate interest in the fisheries science profession among minority and women high school students, though all high school sophomores, juniors, and seniors are eligible for the Hutton Program. Each student chosen for the program is awarded a scholarship and matched with a professional mentor for a summer-long, hands-on experience in fisheries science. Baechler, who recently completed her junior year at Homer High School, is working with her mentor, Bill Bechtol, at the Alaska Department of Fish and Game office in Homer, and has been awarded a \$3,000 scholarship from AFS.

During the summer of 2004, Baechler experienced a variety of projects directed at the assessment and management of groundfish, shellfish, and salmon resources in the Lower Cook Inlet area of Alaska. Specific ADF&G activities in which Baechler participated include: hardshell clam surveys; bottom trawl surveys for crab and groundfish aboard the 66-ft state research vessel *Pandalus*; catch sampling of commercial salmon deliveries; surface support for scuba operations; salmon egg takes from weirs; maintenance of a video monitoring system at a remote salmon stream; laboratory measurements of biological samples; and computer entry of field and laboratory data.

In 2004, AFS received 328 eligible student applications for the Hutton Program. Baechler was one of the 65 applicants selected as Hutton Scholars to work with mentors in 27 states, as well as in Mexico, Canada, and Puerto Rico. Financial support for the 2004 Hutton Program is provided by the National Fish and Wildlife Foundation, U.S. Forest Service, NOAA Fisheries, U.S. Fish and Wildlife Service, U.S. Bureau of Land Management, ADF&G, and Progress Energy.

For information on the American Fisheries Society and the Hutton Junior Fisheries Biology Program, please visit the AFS website at [www.fisheries.org](http://www.fisheries.org), or contact: Jan Lubeck, Hutton Program Administrator, American Fisheries Society, 301-897-8616, Ext. 206; email: [jlubeck@fisheries.org](mailto:jlubeck@fisheries.org).



*Hutton scholar winner, Britta Baechler assisting with an egg take in summer, 2004.*

## AFS Student Subsection

*Katie Bertrand*

My name is Katie Bertrand and I am the incoming President of the Student Subsection of the American Fisheries Society. I would like to invite those of you who are not currently members to join the Student Subsection the next time you renew your membership. The work of the Student Subsection benefits all student members of AFS. For example, the Student Subsection had a major role in changing the membership dues for students entering the workforce. Instead of paying full professional dues, they continue to pay the student rate for 3 years.

This year we are organizing a symposium titled "Ethics in Fisheries," which both students and

professionals are invited to attend at the annual meeting in Anchorage, Alaska.

Most importantly, I am asking for Student Subsection officer nominations. We are the future of the society and the fisheries profession as a whole, and as such, we have an opportunity to demonstrate leadership to our peers and involvement with our colleagues. This promises to be a fun and challenging assignment, where we can contribute to the decisions that shape the society and spotlight our strengths and skills as collaborating scientists. For information, contact Katie Bertrand, Kansas State University, Division of Biology, 232 Ackert Hall, Manhattan, KS 66506, [bertrand@ksu.edu](mailto:bertrand@ksu.edu).

GOLDEN MEMBERSHIP AWARD

<p style="font-size: 0.8em; color: white; margin: 0;">Richard E. Painter Thomas R. Hellier Jr. Frank R. Richardson Donald W. Chapman</p>	 <p style="font-size: 0.8em; color: white; margin: 0;">Dale R. Evans</p>	 <p style="font-size: 0.8em; color: white; margin: 0;">Gene Flittner</p>
 <p style="font-size: 0.8em; color: white; margin: 0;">John F. Hall</p>		
 <p style="font-size: 0.8em; color: white; margin: 0;">Joseph T. Durkin</p>	 <p style="font-size: 0.8em; color: white; margin: 0;">Louis Banderola</p>	 <p style="font-size: 0.8em; color: white; margin: 0;">Bill Heard</p>
		 <p style="font-size: 0.8em; color: white; margin: 0;">W. T. Yasutake</p>

*Two Alaskans, Bill Heard from the Auke Bay Laboratory and Louis Banderola, retired from ADF&G were honored at this year's national AFS meeting with the Golden Membership Award. The Golden Membership award has been presented since 1998 to those individuals who have been affiliated with AFS for at least 50 years.*

## Meetings and Events

### 5th Annual Northwest Salmonid Recovery Conference

This conference will be hosted by the Northwest Environmental Training Center, October 26-29, 2004 in Seattle. This conference is dedicated to people working to restore Pacific Northwest salmonid populations. Each session provides practical information, methods, and resources to help attendees better perform their salmon recovery efforts. The goal of the conference is to foster a sense of stewardship and hope by providing current fisheries science and successful solutions for salmonid monitoring and recovery. Registration is \$395. For more information call 206-7862-1976 or email, [info@nwetc.org](mailto:info@nwetc.org).

### BioSonics Hydroacoustic Assessment Workshop

BioSonics' regularly scheduled "Hydroacoustic Assessment Workshop" will be held October 25-29, 2004, and January 24-28, 2005 in Seattle. If your work involves the detection and measurement of physical and biological characteristics in rivers, lakes, or nearshore ocean environments, you should consider attending this workshop.

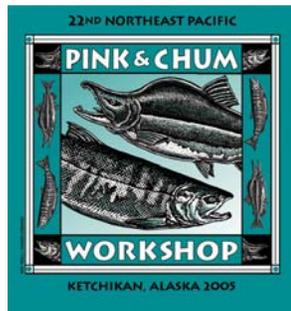
The 5-day workshop addresses the theory and real-world application of hydroacoustic (SONAR) technology to underwater assessment. Lab and field time are both integral parts of the course as is "hands-on" experience with the BioSonics DT-X Digital Scientific Echosounder System. Additional information and course registration request can be found on the web site: <http://www.biosonicsinc.com/training.shtml>. A 20% discount is available for university students and for groups of three or more from the same organization.

### 22<sup>nd</sup> Annual Northeast Pacific Pink and Chum Salmon Workshop

The 22<sup>nd</sup> Northeast Pacific Pink & Chum Salmon Workshop will be held at the West Coast Cape Fox Lodge in Ketchikan, February 23-25, 2005. Papers are being solicited for the following sessions:

- Recruitment Prediction/Forecasting
- Ocean Ecology of Pink and Chum Salmon
- Enhancement Production and Management
- Pink and Chum Salmon in Western Alaska
- Salmon Farming and Impacts on Pink and Chum Salmon
- Habitat Management and Restoration
- Contributed Papers and Posters: Biology, Ecology, and Management of Pink and Chum Salmon.

If you would like to present a paper or poster please contact one of the Workshop Co-Chairs; Steve Heinl, [steve\\_heinl@fishgame.state.ak.us](mailto:steve_heinl@fishgame.state.ak.us), 907-225-9677, Rick Focht, [rick\\_focht@dipac.net](mailto:rick_focht@dipac.net), 907-463-1629, or Alex Wertheimer, [alex.wertheimer@noaa.gov](mailto:alex.wertheimer@noaa.gov), 907-789-6040. For more information visit the web site: <http://www.psc.org/pink&chumworkshop/Default.htm>.



### Coastal Zone 05 Conference

The Coastal Zone 05 conference will be held July 18-21, 2005 in New Orleans. Coastal Zone is the premier conference for the world's coastal resource managers. The 14th installment of the biennial conference series focuses on balancing the issues and interests of land and sea. With over 1,000 participants expected from all over the world, this conference promises to provide valuable tools, lessons learned, and new ideas to help address the coastal management issues we're all facing. For more information visit the web site: <http://www.csc.noaa.gov/cz/>.

### 2005 National AFS Meeting

Make plans now to come to the 135th Annual Meeting of the American Fisheries Society, co-convening with the annual meetings of the Western Division AFS and the Alaska Chapter AFS along with the 23rd Lowell Wakefield Symposium on Pacific Rockfishes. The meeting is at the Egan Convention Center and Performing Arts Center in Anchorage, September 11-15, 2005. The meeting's theme will be "Creating A Fisheries Mosaic: Connections Across Jurisdictions, Disciplines, and Cultures." A "mosaic" represents a whole that is greater than the sum of its parts.

The meeting theme reflects President Barbara Knuth's Program of Work for her year in office, emphasizing the notion of "connections." World-renowned fisheries artist Ray Troll has designed a stunning and inspiring meeting poster in keeping with this theme, and will speak about the convergence of his art and fisheries science as one of the meeting's plenary session speakers. Other plenary speakers will address the relationship of indigenous knowledge with western science and fisheries management (Patricia Cochran, Alaska Native Science Commission), and emerging partnerships between business and non-profits for promoting sustainable commercial fisheries and educating consumers about the importance of making appropriate seafood choices (Heather Tausig, New England Aquarium). We encourage symposia that build on these themes, and other themes of connections across jurisdictions, disciplines, and cultures.

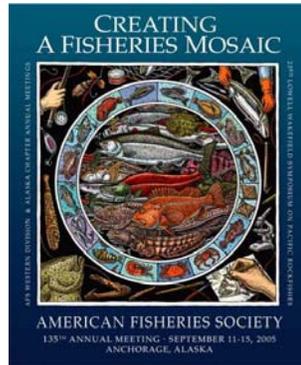
The Program Committee invites proposals for symposia from individuals or groups. Symposia may be presented as oral presentations, posters, or both. Symposium proposals must be submitted by January 14, 2005 via e-mail to Eric Knudsen. Abstracts for contributed oral presentations and posters must be received by February 11, 2005. Poster submissions are strongly encouraged because of the limited space available in the program for oral presentations. Submissions must be made by using the online abstract submission form available on the AFS Annual Meeting website (<http://www.wdafs.org/Anchorage2005/index.htm>) in November 2004.

Questions regarding symposia should be addressed to: Eric Knudsen, Consulting Fisheries Scientist, 13033 Sunrise Dr., Mt. Vernon, WA 98273; Phone 360-856-5482, [ericknudsen@gci.net](mailto:ericknudsen@gci.net). Questions regarding contributed paper sessions should be addressed to: Joe Margraf, Alaska Cooperative Fish and Wildlife Research Unit, P.O. Box 757020, Fairbanks, AK 99775-7020; 907-474-6044, [joe.margraf@uaf.edu](mailto:joe.margraf@uaf.edu). Questions regarding the poster session should be addressed to: Carol Kerkvliet, Division of Sport Fish, Alaska Department of Fish and Game, 3298 Douglas Place, Homer, AK. 99603-8027; Phone 907 235-8191, [carol\\_kerkvliet@fishgame.state.ak.us](mailto:carol_kerkvliet@fishgame.state.ak.us).

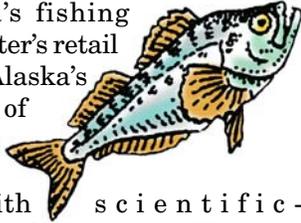
**AFS 2005 Meeting Poster**

Lisa Olson

The poster for the 2005 meeting in Anchorage was designed and drawn by Alaskan artist Ray Troll, with color execution by Karen Lybrand, Troll's longtime friend and collaborator. Troll's design is based on the Anchorage 2005 theme: "Creating a Fisheries Mosaic."



Ray Troll arrived in Ketchikan, Alaska, in 1983 with a couple of art degrees in his back pocket. He immediately became immersed in Alaska's fishing industry by assisting with his sister's retail seafood venture, and has kept Alaska's fish and fisheries a main theme of his artwork ever since. Troll's renown comes from combining an offbeat sense of humor with scientific-illustration-quality paintings and prints. Witness such pieces as "Salmon Enchanted Evening," a midnight fantasy of salmon and trout.



In recent years, Troll's work has moved more toward an expression of science. His participation in a number of research projects focusing on prehistoric life forms has resulted in a museum exhibit based on his children's book *Sharkabet, a Sea of Sharks from A to Z*. The exhibit is now on tour at major museums throughout the country.

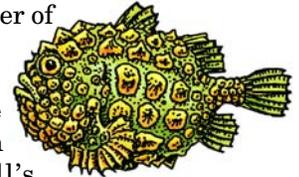
An overview of Troll's fish-filled career, *Rapture of the Deep – the Art of Ray Troll*, with a forward by David James Duncan and introduction by Brad Matsen, was published by the University of California Press in September 2004. He has collaborated with Matsen on

three other books: *Ray Troll's Shocking Fish Tales: Fish, Romance, and Death in Pictures*; *Planet Ocean: A Story of Life, the Sea, and Dancing to the Fossil Record*; and *Raptors, Fossils, Fins & Fangs: A Prehistoric Creature Feature*. Troll also illustrated "Life's a Fish and then You Fry: An Alaskan Seafood Cookbook" by Randy Bayliss.



In addition to designing the AFS 2005 poster, Troll will also present "Fish Worship and the Art of Ray Troll" at a plenary session, and will be available to autograph his works during the conference. On a more musical note, Troll and his friend and co-conspirator Russell Wodehouse will perform their cult hit "Lumpsuckers of Love," as well as other self-penned songs, at the Anchorage 2005 meeting, as part of their Ratfish Brothers alter egos.

Ray Troll is an honorary member of the Gilbert Ichthyological Society, the Guild of Natural Science Illustrators, and a lifetime member of S.P.O.O.F. (the Society for the Protection of Old Fish). Dr. Dominique Didier Dagit of the Academy of Natural Sciences in Philadelphia recognized Troll's efforts to raise awareness of and appreciation for some of the weirder and lesser-known fish in the sea by naming a new species of ratfish, *Hydrolagus trolli*, in his honor.



Troll and his wife, Michelle, live in Ketchikan, Alaska, where they run the Soho Coho Gallery, which markets artwork by Troll as well as original works by other local artists. If you simply can't wait until the 2005 meeting, you can cruise Ray's website through the Anchorage 2005 website at [www.wdafs.org/Anchorage2005](http://www.wdafs.org/Anchorage2005) to learn more about this incredibly versatile artist and to enjoy his "fin" art. 🐟

**Alaska Chapter – AFS 2004 Travel Awards for Alaska Natives and Minorities in Fisheries**

Jerry Berg

The Alaska Chapter of the AFS is pleased to announce the availability of a monetary award for an Alaska Native or other minority person, to cover travel expenses to attend the 2004 Annual Chapter Meeting, November 16-18, 2004 in Sitka. Applicants must meet the following requirements:

- Be an Alaskan native or minority (woman, black, Hispanic, or other ethnic minority) in a field of fisheries science or a related discipline,
- Be in an entry level position or student, defined as one or more of the following:
  - 1) Fisheries Biologist I, Fish and Wildlife Technician II or III, or the equivalent in the State of Alaska employment system,
  - 2) Range 14 or lower Forester or Limnologist or equivalent in the U.S. government,
  - 3) GS-7 or lower level position in the U.S. government employment system,
  - 4) Have an entry-level fisheries or related science position in the private sector,
  - 5) Be a student in good standing in the field of fisheries or a related discipline.
- Will not be able to attend the meeting without this award.

Applicants should contact one of the following people about applications: Jerry Berg, 907-786-3876, [jerry\\_berg@fws.gov](mailto:jerry_berg@fws.gov), or Lisa Stuby, 907-459-7202, [lisa\\_stuby@fishgame.state.ak.us](mailto:lisa_stuby@fishgame.state.ak.us). To be considered, your application must be received by **OCTOBER 27, 2004!**

Applicants will be evaluated on their work and/or educational experiences and interest in the natural resources field, interest in professional advancement, reason(s) for attending the meeting, reference contact information, and financial need. The award recipient will be introduced at the Annual Chapter Meeting. The recipient will also be expected to write a brief statement about their experience at the Chapter Meeting to be submitted for publication in the Winter issue of *Oncorhynchus*. 🐟

## Alaska Chapter 2004 Annual Conference

### Sustaining Alaska's Fisheries: Visions for the Future

Molly Ahlgren

**WHERE:** Sitka at the Harrigan Centennial Hall.

**WHEN:** Continuing Education courses are scheduled for November 14-15 and technical sessions are scheduled for November 16-18. Registration will begin Monday evening, November 15.

**ACCOMODATIONS & TRAVEL:** A block of rooms is reserved at the Westmark Shee Atika Lodge. The room rate is \$109.00/night for single or double occupancy. Call Westmark Central Reservations (800-544-0970) to make reservations. Reservations must be made by **October 15** to insure a room after this date all unused space will be released. Sitka Tours will provide shuttle service to and from the airport for a \$7 round trip fee.

Student housing is available at Sheldon Jackson College (contact Keith Hudson for reservations and check in (907-747-2518). The room rate is \$35.00/night (single occupancy), \$20.00/night (shared room). Alaska Airlines will provide a 10% discount on fares during the meeting dates. Call the group desk (800-445-4435) and mention the fare designator code: CMR7347.

**PRE-REGISTRATION:** Form and payment instructions are enclosed in this newsletter or are available online at <http://www.fisheries.org/afs-ak/>. Please mail forms to Ray Hander, AKAFS Treasurer, Fairbanks Fish and Wildlife Field Office, 101 12th Ave., Room 110, Box 19, Fairbanks, AK 99701.

**BANQUET:** The banquet will feature a seafood 'heavy hors doeuvres' buffet catered by Ludwig's Bistro, Sitka's acoustic/blues band 'Belly Meat', and presentation by Ray Troll.

**PAYMENT:** You can pay by check or purchase order. Credit card payment will be taken after October 5, 2004. Detailed instructions for payment procedures are included in this newsletter and online.

**ABSTRACT DEADLINE:** The abstract deadline was October 1<sup>st</sup>.

**SESSIONS:** A schedule of presentations will be posted online during October and can be viewed at (<http://www.fisheries.org/afs-ak/>). Descriptions of the technical sessions and full contact information for session chairs are also available online.

- **Managing Alaska's Fisheries in the Face of Arctic and Sub Arctic Climate Change** (Kate Wedemeyer: [kate.wedemeyer@mms.gov](mailto:kate.wedemeyer@mms.gov));
- **Southeast Alaskan Freshwater Fish Ecology and Habitat** (Kim Hastings: [hastings@selway.umn.edu](mailto:hastings@selway.umn.edu) -OR- [Kim\\_Hastings@fws.gov](mailto:Kim_Hastings@fws.gov));
- **A Neophyte's Guide to Answering Fishery Management Questions with Genetics Tools** (John Wenburg: [john\\_wenburg@fws.gov](mailto:john_wenburg@fws.gov) or Kim Hastings: e-mail as listed);
- **Advances in Marine Biology** (Dan Urban: [dan\\_urban@fishgame.state.ak.us](mailto:dan_urban@fishgame.state.ak.us));
- **Coregonid Life History Research Methods and Application** (Randy J. Brown: [randy\\_j\\_brown@fws.gov](mailto:randy_j_brown@fws.gov) and Ken Harper: [ken\\_harper@fws.gov](mailto:ken_harper@fws.gov));
- **Char Life History, Diversity, Distribution and Management in Alaska** (Fred DeCicco: [fred\\_decicco@fishgame.state.ak.us](mailto:fred_decicco@fishgame.state.ak.us));
- **Alaska Enhancement Programs: Steep Passes to Lake Stocking to Large Scale Hatcheries** (Steve Reifenstuhl: [steve\\_reifenstuhl@nsraa.org](mailto:steve_reifenstuhl@nsraa.org));
- **Contributed Papers** (Lisa Stuby: [lisa\\_stuby@fishgame.state.ak.us](mailto:lisa_stuby@fishgame.state.ak.us));
- **Poster Session** (Corrine Ferguson: [corrineferguson@fs.fed.us](mailto:corrineferguson@fs.fed.us)).
- A special session titled "**Speaker Tips & Guinea Pig talks**" is being planned for **Monday afternoon (3:00-5:00)** for students, first time presenters, and anyone interested in enhancing their speaking skills. (Molly Ahlgren: [mahlgren@sj-alaska.edu](mailto:mahlgren@sj-alaska.edu); Meg Cartwright [meg\\_cartwright@fishgame.state.ak.us](mailto:meg_cartwright@fishgame.state.ak.us)).

#### CONTINUING EDUCATION

Full descriptions are provided online for the following workshops:

#### **ArcView for Applications for Fisheries Scientists I & II**

Sunday November 14, 8:30 am – 5:00 pm

Monday November 15, 8:30 am – 5:00 pm

These two 1-day hands-on classes will introduce fisheries biologists to practical applications of ESRI's ArcView software. The first course will begin with a brief review of general GIS concepts and vocabulary. The course will then move into teaching basic ArcView functionality for aquatic applications. The second course, GIS-402B, will focus on hands on exercises that demonstrate numerous ways that ArcView can assist with fisheries science and management.

During both courses, participants will use their own laptop computers to create, edit, display, and analyze real-world fisheries data. The instructors are Dr. Thom Eley and Dr. Cherie Northon. Workshop participants are required to bring a computer with the software installed. A free 30-day evaluation copy can be obtained at: <http://www.esra.com/software/arcgis/arcview/eval/evalcd.html>.

### Fundamentals of Bayesian Statistical Analysis

Monday November 15, 8:30 am–12 noon

Instructor: Steve Fleischman ([steve\\_fleischman@fishgame.state.ak.us](mailto:steve_fleischman@fishgame.state.ak.us))

Can't tell a prior from a posterior? What the heck is MCMC? What's the big deal about this Bayesian stuff anyway? Should you care? The Bayesian perspective is a unified framework from which to view uncertainty. It meshes well with the scientific method, and many think it is more intuitive than the classical statistics most of us learned in school. Bayesian methods all follow from a few simple ideas. If you understand conditional probability (probability of "heads" given that the coin is fair), you can understand Bayesian statistics. Bayesian methods bring all available evidence to bear in making an inference. Due to recent advances in software, they can be more powerful and versatile than their classical counterparts. This is not intended to be an applied class, although the Bayesian software package WinBUGS will be demonstrated, and there will be an opportunity to test and troubleshoot WinBUGS code for several hours after class.

### Under the Gavel: Moving Meetings with Roberts Rules of Order

Monday November 15, 1:00 pm–3:00 pm

Instructor: Dr. Joe Margraf ([joe.margraf@uaf.edu](mailto:joe.margraf@uaf.edu))

As a past AFS Constitutional Consultant, Joe has served as Parliamentarian at numerous meetings of the American Fisheries Society. Joe will provide a basic understanding of Robert's Rules that will allow attendees to participate effectively in meetings that are conducted using Parliamentary Procedure. A mock meeting will be used to demonstrate key points. All members are encouraged to attend.

### Detect, Don't Infect! HACCP Planning to Prevent the Spread of Aquatic Invaders

Monday November 15, 8:00 am–4:00 pm

Instructors: Bob Piorkowski ([robert\\_piorkowski@fishgame.state.ak.us](mailto:robert_piorkowski@fishgame.state.ak.us)) and Denny Lassuy ([denny\\_lassuy@fws.gov](mailto:denny_lassuy@fws.gov))

This full-day workshop uses hands-on group exercises to learn and apply the principles of HACCP. Participants will learn background information on high-risk aquatic invasive species, gain familiarity with HACCP planning steps, and apply HACCP to real-life situations. ☺

## 2004 Alaska Chapter of AFS Pre-registration Payment Guidelines

Molly Ahlgren

The Pre-Registration Form for the 2004 Annual Conference of the Alaska Chapter of the American Fisheries Society is provided as in insert to this newsletter and is also available on the Chapter's web site: [http://www.fisheries.org/afs-ak/meetings/2004/m2004\\_regis\\_frm.htm](http://www.fisheries.org/afs-ak/meetings/2004/m2004_regis_frm.htm).

Here are items you **MUST** provide in order to process your pre-registration. A **COMPLETED REGISTRATION FORM**. This means a completed form including payment. A form without payment will not be processed. To qualify for early registration pricing you must have your completed form and payment to the Treasurer prior to the deadline stated on the registration form.

A. If you are paying with a credit card, you can:

1. Call with your information: 907-456-0402 (10:00 am to 4:00 pm)
2. Fax your credit card information: 907-457-3656
3. Email your credit card information to Ray Hander: [ray\\_hander@fws.gov](mailto:ray_hander@fws.gov)

You will need to provide the following:

- Card Type: (Visa or Mastercard only)
- Card Number:
- Expiration Date:
- Name as on Card:

- VID number (the three digit number found at the end of the card number in the signature area on the back of your credit card)

- Credit card billing address if different from registration address.

- Invoice Address if different from registration address.

B. If you are paying with a check, purchase order or other non-electronic method: Please send your payment and completed registration form to:

Ray Hander, AKAFS Treasurer  
Fairbanks Fish and Wildlife Field Office  
101 12th Ave., Room 110, Box 19  
Fairbanks, AK 99701  
907-456-0402 – Phone  
907-457-3656 – Fax (secure line in the home of Treasurer)  
[ray\\_hander@fws.gov](mailto:ray_hander@fws.gov)

Include an invoice address if different from registration address. You may also pay in advance for the banquet as well by corporate or personal credit card or check or just wait and pay at the registration. Advanced payment is appreciated for banquet meal planning purposes and for less on site registration congestion. ☺

**Alaska Chapter American Fisheries Society<sup>1</sup> Annual Conference**

**November 16 - 18, 2004 Sitka, Alaska**

**PRE-Registration Form**

(After November 8 – Please REGISTER On-site)

**Name:** \_\_\_\_\_ **Affiliation:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_ **E-Mail:** \_\_\_\_\_

**Registration Fee<sup>4</sup> (Please indicate your choices)**

Items	Amount	Subtotal
<b>3-Day Registration</b> Registration Payment Before Oct 30/After Oct 29		
Member	\$110.00/\$130.00 =	_____
Non-member <sup>2</sup>	\$196.00/216.00 =	_____
Student Member <sup>3</sup>	\$40.00/\$45.00 =	_____
<b>1-Day Registration</b> (Circle days)		
Member (T W Th)	\$50.00 x no. days =	_____
Non-member <sup>2</sup> (T W Th)	\$65.00 x no. days =	_____

**Continuing Education**

**Workshops Nov. 14 & 15** **Members/Non-members<sup>4</sup>**

11/14	ArcView Applications for Fisheries Scientists I	\$180.00/210.00 =	_____
11/15	ArcView Applications for Fisheries Scientists II	\$220.00/255.00 =	_____
11/15	Fundamentals of Bayesian Statistical Analysis	\$75.00/100.00 =	_____
11/15	Under the Gavel: moving meetings effectively with Roberts Rules of Order	\$50.00/75.00 =	_____
11/15	HACCP Planning to Prevent Aquatic Invaders	\$50.00/75.00 =	_____

**Banquet Buffet – 11/17/2004** No. persons (\_\_\_\_) x \$30.00 = \_\_\_\_\_

**Total Enclosed** = \_\_\_\_\_

Checks payable to Alaska Chapter of AFS

**Total to be billed** (include agency, purchase order, and billing contact person)

Purchase Order Number (\_\_\_\_\_)

Please direct **Credit Card** questions to Ray Hander (**CC purchase available after October 5**)

Send completed form and payment to:

**Ray Hander, AKAFS Treasurer**

**Fairbanks Fish and Wildlife Field Office**

**101 12th Ave, Room 110, Box 19**

**Fairbanks, AK 99701**

FAX: (907) 457-3656

E-mail: ray\_hander@fws.gov

Billing Questions – Contact Ray Hander (ray\_hander@fws.gov, phone 907-456-0402, FAX 907-457-3656)

Meeting Questions – Contact Molly Ahlgren (mahlgren@sj-alaska.edu, 907-747-5255)

Continuing Education Questions – Contact Hamachan Hamazaki (hamachan\_hamazaki@fishgame.state.ak.us)

<sup>1</sup> The Alaska Chapter of the American Fisheries Society is a non-profit organization (501 (c) (3)), Fed EIN number 23-7368960.

<sup>2</sup> The Non-member registration fee includes a complementary membership to the American Fisheries Society and the Alaska Chapter AFS.

<sup>3</sup> Student members assisting with the meeting (registration, A/V etc.) will have registration fees waived. Contact Molly Ahlgren for details (see address above). Student non-members are required to pay the full non-member registration fee.

<sup>4</sup> 80 % refunds thru Nov 8. No refunds after Nov 8.

## Officer Ballot For Chapter Vice President and Treasurer

Cut off ballot (must be original) and mail in stamped envelope before November 5, 2004 to:

Carol Kerkvliet  
P.O. Box 1365  
Homer, AK 99603-1365  
Phone: 907-229-2234

**Vice President:**

\_\_\_\_\_ Scott Maclean                      \_\_\_\_\_ Write-in \_\_\_\_\_

**Treasurer:**

\_\_\_\_\_ Ray Hander                      \_\_\_\_\_ Write-in \_\_\_\_\_

You may also vote online at <http://www.fisheries.org/afs-ak/elections/2004/oclist2004.htm>.

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### AFS Alaska Chapter 2004 Elections - Candidates for Office

**Scott Maclean for Vice President**

Scott has actively participated in the American Fisheries Society over the past 15 years. He is currently a habitat biologist with the Alaska Department of Natural Resources, Office of Habitat Management and Permitting, in Anchorage. As such, he is involved with; the adoption of nominations and revisions made to the Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fishes and its associated Atlas, duties fulfilling specific statutory responsibilities for protecting freshwater anadromous fish habitat under the Anadromous Fish Act and, ensuring passage of anadromous and resident fish in fresh water bodies. After 5 months, Scott is enjoying the challenges of learning his job, and discovering the many issues and activities taking place around the State of Alaska.

Scott worked seasonally for the Washington State Department of Fish and Wildlife (1990 and 1996) and for the U.S. Forest Service, Quinault Ranger District (1991-1995). Seasonal work experiences included nearshore marine fish and habitat assessment, stream habitat inventory and enhancement, spawner surveys, and salmon smolt trapping and tagging. He also worked at the University of Hawaii at Manoa (1995) conducting otolith microchemistry analyses. From 1996-2004, he worked for the U.S. Geological Survey, Alaska Science Center and participated in a research project to evaluate environmental factors influencing freshwater survival of Yukon River chum salmon.

His interests in aquatic resources stemmed from spending time in streams as a youth. In 1989, Scott received the Presidents Environmental Youth Award for helping to restore a salmon run in a coastal stream of Washington State. After receiving a Certificate in Aquaculture from Grays Harbor Community College in 1990, he completed an A.S. in Fisheries (1992), and B.S. in Fisheries Science (1994) at the University of Washington. Scott then completed his Masters of Science in Fisheries at the University of Alaska, Fairbanks in 2003.

Scott was an active member of the Grays Harbor College, Fish and Wildlife Club, and served as senator and

treasurer in the academic student body. He was also actively involved in the University of Alaska Fairbanks, AFS subunit as treasurer and continues to be involved as an active member of AFS. From these experiences, he developed an appreciation for being involved and the results of teamwork.

His goals are to increase membership and involvement within AFS by working with Committee Chairs and by interacting with a diverse group of scientists. Scott will work to facilitate mentorship between young scientists and experienced AFS members. He is a firm believer that AFS has a lot to offer through committees, continuing education courses, newsletters, and annual meetings. All of which provide great forums that can inspire current and future fishery professionals. ☺

**Ray Hander for Treasurer**

Ray Hander was appointed Treasurer in 2002 to replace Bob Ourso who needed to step down following an accident. Ray has made great strides in executing Bob Ourso's visions, which included securing a bookkeeper for the Alaska AFS Chapter and in working with ExComm, Finance Committee, and the banking community to maximize return. Currently, Ray is a Fisheries Biologist working for Fish and Wildlife Service in the Subsistence Fisheries Management Branch in Fairbanks. Ray's interests revolve around fish ecology, habitat use, and conservation. He earned his undergraduate degree in geography with a minor in biology at the University of Central Arkansas in 1987. He moved to Kodiak in 1988 where he was a biological technician for 9 years at the Kodiak National Wildlife Refuge (KNWR) and worked mostly on fisheries projects. He earned his Master's of Fisheries Science in 1997 from UAF under Jim Reynolds. He has also worked with USGS where he studied Yukon River chum salmon freshwater survival in the Chena and Tanana Rivers. Ray first joined the AFS in 1993 while attending school in Fairbanks and served as president of the Student Subunit in 1994. ☺

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

**RETURN REQUESTED - DO NOT FORWARD**

**2004 Alaska Chapter Officers**

**President** Tim Joyce, USFS, PO Box 280, Cordova 99574-0280, Phone: 424-4747, Fax: 424-7214, [tjoyce@fs.fed.us](mailto:tjoyce@fs.fed.us)  
**President-Elect** Molly Ahlgren, Sheldon Jackson College, 801 Lincoln Street, Sitka 99835-7699, Phone: 747-5255 Fax 747-5254, [mahlgren@sj-alaska.edu](mailto:mahlgren@sj-alaska.edu)  
**Vice President** Hal Geiger, ADF&G/CF, P.O. Box 240020, Douglas 99824-0020, Phone: 465-4257, [Harold\\_J\\_Geiger@fishgame.state.ak.us](mailto:Harold_J_Geiger@fishgame.state.ak.us)  
**Treasurer** Ray Hander, Fairbanks Fish and Wildlife Office, 101 12th Ave., Room 222, Box 17, Fairbanks 99701, Phone: 456-0402, Fax: 456-0454, [ray\\_hander@fws.gov](mailto:ray_hander@fws.gov)  
**Secretary** Bob Piorkowski, ADF&G/CF, 1225 W. 8th St., Juneau 99802, Phone: 465-6109, [Robert\\_Piorkowski@fishgame.state.ak.us](mailto:Robert_Piorkowski@fishgame.state.ak.us)  
**Past President** Carol M. Kerkvliet, Sport Fish Division, ADF&G, 3298 Douglas Place, Homer, 99603-8027, Phone: 229-2234  
**Student Unit President** Kyle Deerkop, Sheldon Jackson College-225 801 Lincoln Street, Sitka 99835, [kdeerkop@yahoo.com](mailto:kdeerkop@yahoo.com)

Feel free to contact the Executive Committee members.

**2005 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)\*\*: \$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)

<sup>1</sup> Prices are for AFS members only <sup>2</sup> 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 AFS<sup>1</sup>  N.A. Journal of Fisheries Management<sup>1</sup>
  - \$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<sup>1</sup>
  - \$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.