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NOAA Ship Oscar Dyson

From NOAA Magazine

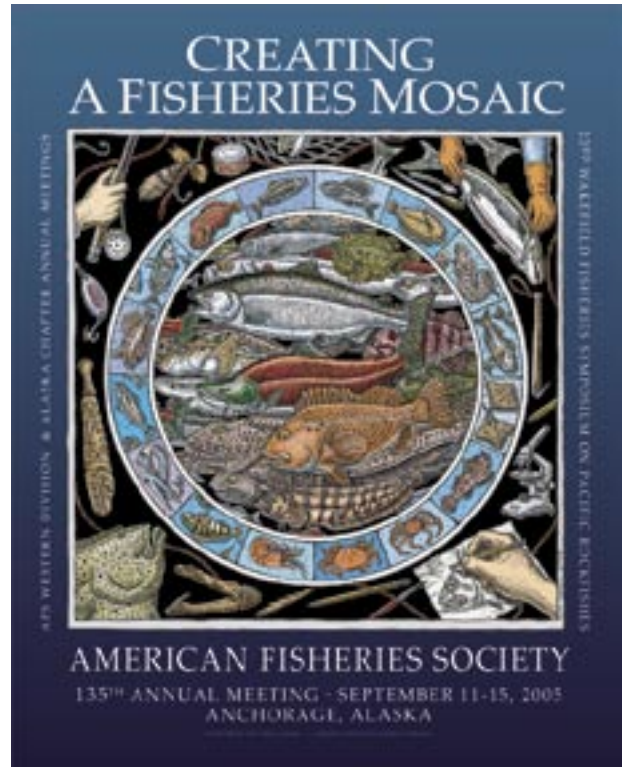
The NOAA Ship *Oscar Dyson*, first in a series of four new NOAA fisheries survey vessels (FSVs) of the same design, was delivered to NOAA by VT Halter Marine Inc. on Jan. 5, 2005. Not only is it NOAA's first newly constructed fisheries survey vessel in more than a quarter of a century, it is one of the most technologically advanced fisheries survey vessels in the world.

The ship is named for the late Alaskan fisherman and fishing industry leader Oscar Dyson, whose numerous private and public contributions improved the fishing industry for many Alaskans who make their living at sea. The ship will be home ported in Dyson's hometown of Kodiak, Alaska, beginning in the winter of 2005. It will conduct missions for the NOAA Alaska Fisheries Science Center and the NOAA Pacific Marine Environmental Laboratory.

Oscar Dyson measures 64 meters long by 15 meters wide and will have an endurance of 12,000 nautical miles at 12 knots, with the capability of a sustained speed of 14 knots. It can remain on station at sea for 40 days. It carries 39 people – four NOAA Corps officers, 23 wage mariners and up to 19 scientists.

Its primary mission will be to monitor the Bering Sea and Gulf of Alaska fisheries and ecosystems, particularly the multi-billion dollar Alaskan pollock fishery. However, unlike

Continued on page 3



Creating a Fisheries Mosaic: Connections Across Jurisdictions, Disciplines, and Cultures **135th Annual Meeting of the American Fisheries Society** **September 11 – 15, 2005 , Anchorage**

Bill Wilson

The AFS meeting is shaping up to be a great event, and it will be perhaps the largest annual AFS meeting ever held. Remember to register before August 5 to get the early bird rate! We hope that as many Chapter members as possible can take advantage of this opportunity to attend an annual Parent Society meeting. We've received a record number of oral and poster paper submissions, and we are scheduling up to 18 concurrent sessions to squeeze in as many as possible. The program includes over 50 organized symposia, and will feature salmon models, shark biology, groundfish management, dams and fish, fish physiology, human cultures, telemetry, stream restoration, and many many other topics. The week will feature many special events including an excellent Plenary Session that will include artist Ray Troll's humorous review of fish and art. There will be socials almost every night, including a seafood spread on Sunday night's opening social and a night at the Alaska Native Heritage Center featuring Native artisans, music, and Copper River Reds! Check the website for more information (www.wdafs.org/Anchorage2005). We welcome you to AFS 2005!

The President's Column

Hal Geiger

I have two things on my mind right now. The first thing is, help! The Chapter—your Chapter—is only as effective as the people that help make it work. We have lots of things we need your help with. The real work gets done in the committees, and we need more people to get involved with these. If you are willing to help out give me a call (907-465-4257 at work, or 907-586-1845 at home) and let's find a good way to get you involved.



The second thing is that I was very surprised by the big response to my last column. My comments about the subversion of the scientific process generated lots of buzz, and lots of member's directed comments my way. The comments were almost all positive. Many members wrote or spoke to me directly to say how strongly they agree that protecting scientific integrity in the face of industry-sponsored criticism and political interference is one of the most important reasons for our Society to exist.

Some of the e-mail and comments that I got about my last column were from members needing to vent about how irrational decision makers and members of the public can be. Well, yes, people are irrational. And this can be hard to watch in our line of work. Still, that's not a problem our Chapter can solve. Years ago, I was in Anchorage at some kind of meeting right after a crash of a Boeing 737. I was having breakfast at the Downtown Deli, and two guys sitting in the booth across from me were talking about the airplane crash and about the newspaper stories that reported possible rudder control problems with that particular airplane. One of these guys, affecting an air of authority, said, "...you would never catch me getting on a 737."

The 737 was one of the very safest airplanes in the world at that time, and it still is to this day. There have been more than 4,000 of them build since they were introduced in 1965. On average, there is about 1 fatal accident in a 737 per 3 million departures—about half of the rate for the Airbus A320, for example. After that guy in the deli said what seemed to be a somewhat irrational thing to me, I looked over and noticed he had a pack of Marlboros in his shirt pocket. I'm sure I don't have to ask, what's the rational approach to safety here? People just choose to be irrational in spite of the fact someone else has gone to a lot of trouble to carefully research an issue and pull the information together to make a rational decision.

Irrational behavior is all around us every day. It is beyond our scope to prevent, and it is more than we can take on to get our clients, the general public, to act rationally on objective scientific advice. Even so, we should expect that science, especially government-funded science, to treat the issues objectively.

On a related topic directly related to our profession, The Union of Concerned Scientists recently got a lot of press about their survey of NOAA personnel. The study's authors reported that two-thirds of the NOAA scientists they surveyed believe that NOAA is not effectively doing its job, and over half reported that they knew of instances where commercial interests or senior administration officials inappropriately influenced agency decisions. A summary of the study is on their web page under the heading "Restoring Scientific Integrity" at www.ucsusa.org.

I guess the greatest cause for optimism is that this topic is getting more and more attention in the popular outlets. For example, the press surrounding the Vioxx controversy has brought much needed scrutiny on the way powerful commercial interests are using uncertainty to drown out scientific advice and prevent regulatory action. The June 2005 issue of Scientific American has an article called "Doubt is Their Product"—the title is taken from a statement found in a 1969 memo from an executive at Brown & Williamson tobacco company on how to fight research into the hazards of smoking. This article is more than just a complaint about the federal government and the recent attack on scientific integrity. The author indirectly touches on the long-ignored problems using the statistical-hypothesis-testing approach in decision making, especially when it isn't clear who owns the null hypothesis. He very directly takes on the problem that uncertainty is being inappropriately used to prevent rational decisions to protect public health, to block protection of public resources, and to prevent objective reporting about risk and hazards. One of the most interesting things for me in the article is a description of the emerging "product-defense consulting" industry, which large companies now turn to generate confusion about scientific information and help them prevent or postpone regulatory action.

Anyway, my big point in all of this, and the reason I have used two columns to talk about it, is that I continue to think the integrity of the scientific process remains the most important issue before our Society today. ☹

Volunteers Still Needed for 2005 AFS!

Lisa Seeb

We need lots of help at the upcoming 2005 AFS Meeting, Sept. 11-15 in Anchorage, and volunteers are also needed for activities building up to the meeting, especially starting on Thursday thru Saturday before the meeting. Come have fun and help make this a successful and a memorable meeting for all. There's a job, either big or small, for everyone. We need volunteers in the following categories: AV tech support, registration, packet stuffing and name tags, raffle and door prizes, recycling, transportation coordinator, ADA coordinator, T-shirts, media office, cell phones, general coordination, etc. Please send us your name, phone, email, and interest to afsvolunteer2005@yahoo.com. ☹

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 Sept. 10.

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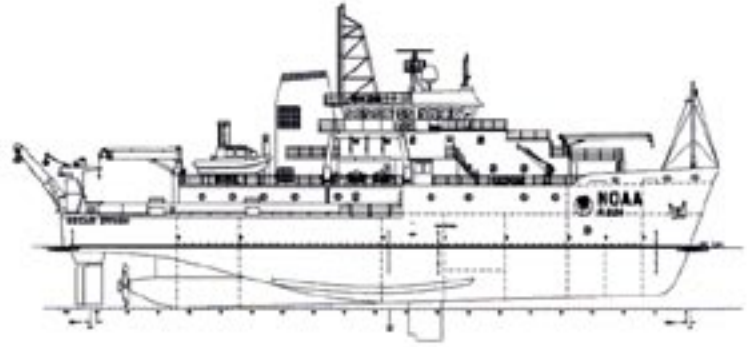
other fisheries research ships, *Oscar Dyson* is equipped with advanced scientific technologies that enable it to simultaneously conduct fisheries and oceanographic missions. As a complete survey platform, *Oscar Dyson* carries equipment and systems to conduct fisheries survey and stock assessments, as well as oceanographic and hydrographic research in most areas of the U.S. Exclusive Economic Zone. The ship will also observe weather, sea state and other environmental conditions; conduct habitat assessments; and survey marine mammal and bird populations. The multi-functional capabilities of NOAA's new FSVs will result in more efficient and effective data collection and significant cost savings.

Typical missions *Oscar Dyson* will undertake include: midwater trawling, bottom trawling, hydroacoustic surveys, and oceanographic (physical, biological and physical) and hydrographic surveys. The ship also has been designed to handle specialized gear, such as a multiple opening/closing net and environmental sampling system, and the deployment and retrieval of floating and moored buoys as well as towed vehicles, dredges and bottom corers. All fluid system discharges are on the port side of the ship to avoid contamination of sampling devices deployed from the starboard side. Marine mammal and bird observation stations will be used to track and identify protected species, such as gray whales, orcas and pinnipeds.

The FSVs have been designed and built to modern commercial construction and safety standards by VT Halter Marine Inc. and will comply with U.S. Coast Guard and American Bureau of Shipping Criteria. Many of the features common to modern commercial fishing vessels are included in the design, but all the new ships will also be equipped with a full suite of modern instrumentation systems for advanced navigation and scientific research — custom designed to meet the specific data collection requirements of NOAA Fisheries. As a result, NOAA's new FSVs will greatly exceed the capabilities of the current NOAA fleet with improved scientific capability and greater speed and endurance. It is because of their specialized design and advanced scientific and navigational systems that the FSVs will be able to successfully perform as multi-functional survey platforms. The following features are unique to the new NOAA fisheries survey vessels:

Low Acoustic Sound Signature: NOAA's new FSVs will be several orders of magnitude quieter than existing NOAA ships. Specifically, they have been built to meet tough standards for a low acoustic signature set by the International Council for Exploration of the Seas, a European-based organization that has developed a set of standards to optimize the effectiveness of fisheries research and facilitate international exchange of comparable data. A reduced acoustic sound signature will improve NOAA's ability to accurately assess fish stocks without altering the behavior of the fish being surveyed.

Sonar Systems: Because of the ships' low acoustic signature, NOAA researchers will be able to more effectively use either towed or hull-mounted sonar systems (i.e., hydroacoustic technology), which uses sound waves to "see" fish and submerged objects on a computer screen and accurately measure their biomass within a given survey area. Scientists then use nets to retrieve the fish



they see on the screen to verify what they are seeing and to determine "species specific signatures" of different populations. Once scientists learn the signatures, the nets and trawls used to collect biological information will be less important.

Hover Capacity: In addition to being acoustically stealthy, *Oscar Dyson* is equipped with a dynamic positioning system to help the ship hover at a fixed point on the ocean, thus allowing it to more accurately monitor undersea activity. The DP system coordinates the thrusters and main shaft so the vessel remains in one position or precise geographic location/coordinate.

Other Unique Design Features: Other unique design features make the FSVs ideally designed for both fisheries and oceanographic missions. Unlike aged NOAA fisheries ships, which are outfitted to handle specific missions, *Oscar Dyson* and its future sister ships will be able to carry and be fitted with a wide spectrum of gear, thus giving them maximum flexibility. If future missions require it, these ships could work off any coast in the United States and target the specific fisheries found there. The engine room is designed for unmanned operations and the integrated bridge system (with dynamic positioning capability) ensures trackline, course, speed and heading are maintained during scientific evolutions. Most of the main deck is reserved for mission functions. Additional mission areas include a large, walk-in scientific freezer, a conference room, a dive locker and an interior sampling station in which scientists and crew can collect water samples from conductivity/temperature/depth instruments out of the severe Bering Sea weather. *Oscar Dyson* is also equipped with an electronics shop, a machine shop, and a bos'n shop. Each shop is supported with qualified personnel and is able to complete repairs to, and on occasion modify, scientific sampling equipment at sea. This capability has enabled adapting specialized equipment and fabricating damage parts to ensure project completion.

The unique design and highly advanced technological features that will characterize NOAA's next generation of fisheries survey vessels will have a huge impact in managing the nation's valuable marine resources. The ship's unique attributes set it apart from its predecessors, provide more efficient and cost-effective data collection and will heighten NOAA's reputation as a world-class fisheries management organization. Because of its advanced sensing capabilities, it is also the newest link in the developing Global Earth Observing System of Systems. 🐟

Chapter Committee Reports

Continuing Education Committee

Toshihide “Hamachan” Hamazaki, Chair

The Continuing Education Committee held four short courses at the 2004 annual conference with 34 attendees. The basic and intermediate GIS courses were offered by Cherie Norton & Thomas Eley through Northwest Environmental Training Center. The course attracted 20 participants. Responses to the course were mostly positive. The participants specifically liked their approach. Working on their laptops worked well. Some dissatisfaction of the courses was concentrated on high fees and few fishery related materials. Introductory Bayesian Statistics course was offered by Steve Fleishman of ADF&G. The course attracted 13 participants. The participants’ responded positively with the course, and many of them requested longer and more advanced course development. Robert’s Rule was offered by Joe Margalef of UAF. The course attracted 9 participants. The participants’ response was neutral. They were not sure how the theory would apply to real situations.

The Continuing Education Committee sponsored five courses in the last year, four in conjunction with the 2003 Chapter Conference and one independent of the Chapter Conference in January 2004. A total of 26 people attended these 5 courses and all courses netted a profit. This profit allows the Chapter to consider sponsoring member-requested courses whose more specialized nature may limit immediate profitability.

Membership Committee

Hal Geiger, Chair

Once again, most of the credit for monitoring and promoting the Chapter’s membership is due to Allen Bingham. As usual, Allen provided the summary statistics for the annual Membership Committee’s report.

The membership statistics for 2004 are very similar to those for the previous year. In 2004, membership increased by only 3 members, or a little less than 1%. We continued to experience an appreciable increase in the Other membership category (mostly due to the young professional membership).

Fisheries Communication and Education Committee

Laurel Devaney and Mike McDougall, co-chairs

In the past year, our committee started updating the AFS Directory of Fishery Educators and put it into an electronic format. We will work with Allen Bingham to get this document posted on the AFS web site and explore the possibility of making it into a searchable database.

A Communication and Education committee meeting was held at the 2004 Chapter Conference in Sitka. Mike McDougall brought the group up to date on the education programs being developed by YRDFA. The group also reviewed the current AFS Directory of Fishery Educators, updated current information, and added new names to the list. The Education Committee also used this time to explore fisheries education and communication needs that can be met by this group and brain-stormed possible topics to cover in a pre-conference workshop or future workshop sessions. If you have any questions or suggestions for the Education Committee, please feel free to contact us. Mike McDougall, yrdfa@mosquitonet.com, (907) 479-3658 or Laurel Devaney, laurel_devaney@fws.gov, (907) 456-0558.

Electronic Communications Committee

Allen Bingham, Chair

This committee was established at the 1995 Chapter Conference in Wasilla. The main purpose of this committee is to maintain and keep current the Alaska Chapter web site. During the past few years the web site has essentially just been “maintained” (i.e., no new improvements). The web site was successfully used to conduct on-line e-balloting for the 2003 and 2004 elections, and is expected to be used for that purpose annually. Each newsletter that has been put out during this past year has been made available on our web site in Adobe Acrobat (pdf) format; and information about training courses and meetings of not only the Chapter but also the Parent Society and the Western Division have been posted.

The Student Subunit web site is maintained as a portion of our site, and has continued to be maintained by the Electronics Communications Committee. Their web site address is: <http://www.fisheries.org/afs-ak/student>. The Student Subunit’s web site has been expanded to include information regarding the newly formed Anchorage-UAA (University of Alaska Anchorage) Campus Group. Additionally, postings of the officers, meetings, and special event announcements were posted for each of the following active Campus Groups:

- Anchorage-UAA
- Fairbanks-UAF (University of Alaska Fairbanks)
- Juneau-UAS (University of Alaska Southeast)
- Sitka-Sheldon Jackson College

The committee continued to maintain an email distribution list for most Chapter members with email addresses in the Chapter’s membership database. The distribution list was used successfully to “get the word out” for Chapter activities such as the recent announcements for the 2004 Annual Conference, as well as the recently conducted chapter elections. The committee is interested in hearing what members would like to see on our web site. The web site address is: <http://www.fisheries.org/afs-ak>, and the email address for sending comments about and contributions to the web site is: allen_bingham@fishgame.state.ak.us.

Alaska AFS Chapter Membership Summary (2000–2004)

Type of membership	2000	2001	2002	2003	2004
Active	247	287	278	286	281
Life	49	53	27	32	32
Retired	6	8	7	8	11
Student	32	43	50	61	57
Other	0	1	11	27	36
Total	334	392	373	414	417
State/Providence (outside of AK)	8	12	14	9	19

The statistics listed for “State/Province” represent the number of different states or locations outside of Alaska where we have members.

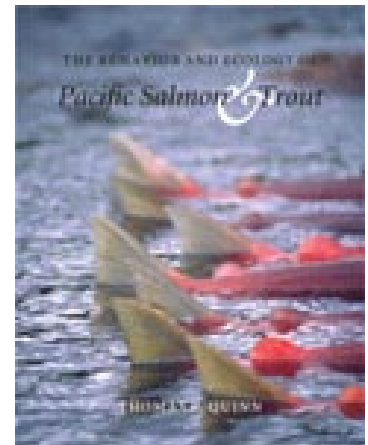
New Book Releases from AFS

The Behavior and Ecology of Pacific Salmon and Trout

Summary

Few subjects have generated as much emotional dialogue around conflicting scientific and policy agendas as the protection and management of Pacific salmon resources. In this major new work, Thomas Quinn distills from the vast scientific literature the essential information on the behavior and ecology of Pacific salmon, including steelhead and cutthroat trout. Unlike other books that examine only selected life stages, habitats, or species, this book—richly illustrated with beautiful photographs and original drawings—thoroughly covers the complete life cycle, emphasizing common themes and differences among the various species of salmon.

Representing the range of species and geographic regions, the book includes examples from classic studies by pioneers of salmon biology and from the most current research to illustrate the important features of salmon life history and behavior and the complex physical, biological, and human factors that affect them.



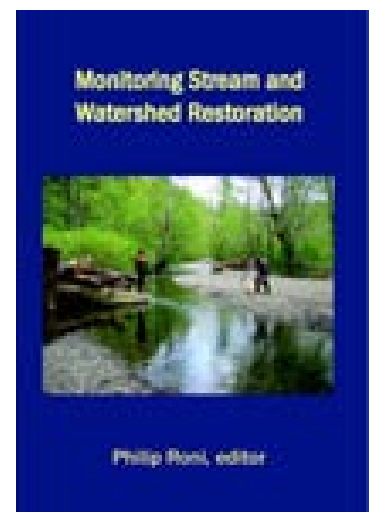
Monitoring Stream and Watershed Restoration

Summary

Millions of dollars are invested annually to aquatic restoration, yet little guidance exists on how to monitor and evaluate these activities. This long-awaited book provides a practical resource for designing and implementing monitoring and evaluation programs for restoration activities at various scales – from individual, site-specific actions to multiple projects throughout a watershed.

Chapters are organized around the major types of restoration techniques, including road improvements, riparian silviculture, fencing and grazing management, floodplains, estuarine, instream, nutrient enrichment, and acquisitions and conservation easements. The book includes chapters on economic evaluation and monitoring design.

This book will particularly appeal to scientists evaluating restoration techniques, to groups implementing restoration, and to agencies and entities responsible for funding restoration efforts.



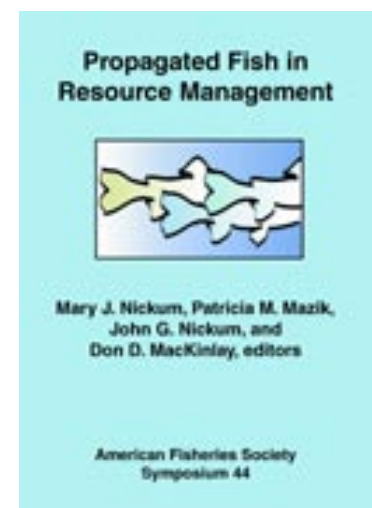
Propagated Fish in Resource Management

Summary

This book contains the peer-reviewed technical papers presented at a June 2003 symposium examining the effective use of fish culture as a tool for fisheries resource management.

The symposium identified information gaps in technical knowledge, debated the appropriateness of assumptions and current theories being used to make resource management decisions, and attempted to reconcile philosophical differences that have become an obstacle to science-based resource management. Ten AFS Sections collaborated in this effort that showcased several themes:

- Decision Making and Risk Evaluation in Fish Stocking.
- Fishery Perspectives and Managing for Multiple Goals.
- Differences Between Propagated Fish and Wild Fish.
- Fish Health, Environmental Health and Hatchery Reform.
- Propagated Fish and Resource Management – Science & Agency Perspectives. 🐟



Meetings and Events

Status of Pacific Salmon and Their Role in North Pacific Marine Ecosystems Symposium

The North Pacific Anadromous Fish Commission (NPAFC) and the North Pacific Marine Science Organization (PICES) announce a symposium on “The status of Pacific salmon and their role in North Pacific marine ecosystems” to be held October 30 – November 1, 2005 at the Lotte Hotel Jeju, 2812-4, Saekdal-dong, Seogwipo, Jeju-do, Korea. Symposium topics include 1) status of Pacific salmon, trends in abundance and biological characteristics, 2) role of Pacific salmon in the function of North Pacific marine ecosystems, and 3) Pacific salmon as indicators of climate variability in the North Pacific. For more information visit the web site: http://www.pices.int/meetings/international_symposia/2005_symposia/NPAFC_PICES/NPAFC_PICES_symp.aspx or contact Toshinori Uoya, 1-604-775-5550, uoya@npafc.org or Skip Mckinnell, 1-250-363-6366, mckinnell@pices.int.



Sustainability of the Arctic-Yukon-Kuskokwim Salmon Fisheries Symposium

This Alaska Sea Grant sponsored symposium will be held November 15-18, 2005 in Anchorage. The purpose of the symposium is to help document what is known and to identify key ecological processes that cause change in salmon populations and the fisheries they support in the Arctic-Yukon-Kuskokwim region. For more information visit the Alaska Sea Grant web site: <http://www.uaf.edu/seagrant/Conferences/symposia.html>.

8th World Wilderness Congress

The 8th WWC will be held in Anchorage, Sept. 30-Oct. 6, 2005, with associated events in Kamchatka and the Russian Far East. Approximately 1,000 delegates from over 40 nations will attend. The theme of the Congress is Wilderness, Wildlands and People – A partnership for the Planet. This Congress will generate the most up-to-date and accurate information on the benefits of wilderness and wildlands to contemporary and traditional societies, and will review the best models for balancing wilderness and wildlands conservation with human needs.

The 8th WWC will include delegates from around the world, and the models, projects, data and analyses presented will be global in scope. This Congress will also have a special focus on the wilderness, wildlands, and marine resources of Alaska, Siberia, Canada, and the North Pacific, and will mark the first time that WWC events are held in Russia. For more information visit the web site: <http://www.8wwc.org/index.htm>.



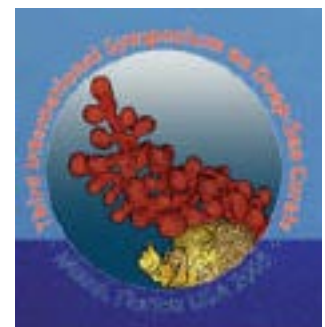
18th Biennial Conference of the Estuarine Research Federation

The 18th ERF Conference will be held October 16-21, 2005 in Norfolk, Virginia. The theme of the conference is Estuarine Interactions: Biological-Physical Feedbacks and Adaptations. Conference registration deadline is Sept. 2. For more information visit the web site: <http://www.sgmeet.com/erf2005/default.htm>.



3rd International Symposium on Deep-Sea Corals Science and Management

The 3rd International Symposium on Deep-Sea Corals will be held in Miami, Florida, Nov. 28 – Dec. 2, 2005. The Symposium will facilitate global exchange of the current scientific knowledge of deep-sea corals and associated fauna and discuss possible statutory means available to conserve and protect deep-sea habitat. The international event will focus on scientific exchange and establishing collaborative partnerships. As several publications have recently stated, deep-sea corals are “out of sight but no longer out of mind.” For more information, visit the web site: <http://conference.ifas.ufl.edu/coral>.



Juneau AFS students from left, Katie Palof, President, Josh Robins, Vice president, Sean Rooney, Secretary, and members Brian Elliott, Nathan Sobeloff and Heide Herter.



Juneau Subunit Hosts Student Symposium

Bill Bechtol

The skies were shining when Katie Palof, Juneau student subunit of the AFS Alaska Chapter, opened the 9th Annual Student Symposium at the University of Alaska Juneau campus on April 6th, 2005. Subunit advisor Dr. Milo Adkison provided opening remarks, followed by student presentations in front of a 40-member audience comprised of university staff, various government agencies, and other students. Presentation topics included salmon distribution and ecology, fisheries interactions with Steller sea lions, genetic structure of Pacific ocean perch, Dungeness crab ecology, and mariculture impacts on the benthic community. The symposium is intended as an opportunity for students to present results of their theses and other projects in front of an informal crowd of peers. Appreciation is extended to the fisheries professionals that agreed to evaluate the student presentations! For additional information, contact Katie Palof at ftkjp@uaf.edu.

Alaska Chapter Business Meeting

The business meeting for the Alaska Chapter of AFS will be held September 14 in the Dillingham-Katmai Room in the Hilton Hotel. This year the Alaska Chapter annual meeting is being held in conjunction with the Parent Society meeting in Anchorage. The business meeting is scheduled from 12 noon to 2 PM and all Alaska AFS members are invited to attend. A lunch will be served at this meeting by the Hilton Hotel at a cost of \$5.00 to Chapter members. The true value of the meal is approximately \$20.00, but to encourage your attendance, the balance of the cost is being supplemented by the AFS.

Please notify Ray Hander (456-0402, ray_hander@fws.gov) of your intention to attend, and make payment prior to Sept. 1, 2005. You can not sign up for this meal through the Parent Society registration process. We must notify the Hilton Hotel of the number of meals that need to be prepared, and your attendance is welcomed and recommended. Besides, you won't find a better lunch in Anchorage for \$5.00.

Volunteers Needed for 2005 AFS Spawning Run

Seventeen volunteers are needed for the 2005 AFS spawning run. Help is needed to monitor the racecourse, time the runners, assist at the start and finish lines, process the results and serve refreshments. The run will begin and end at the start of Tony Knowles Coastal Trail at 7 am September 14. To volunteer or for more race information contact Debby Burwen, 907-267-2225, debby_burwen@fishgame.state.ak.us, or Dan Bosch, 907-267-2153, dan_bosch@fishgame.state.ak.us.



Oncorhynchus Newsletter

John Thedinga, editor

I became the Chapter editor in 1999 after the previous editor Mike Murphy retired from the Auke Bay Laboratory. It's been an enjoyable and rewarding experience working with the Chapter officers and committees and serving as the Chapter editor, but after 7 years it's time to pass the torch to someone else. If you are interested in becoming the Chapter editor or know of a possible candidate please contact me, 789-6025, john.thedinga@noaa.gov. The newsletter is published quarterly and involves compiling and editing articles submitted by Chapter members. Connie Taylor of Fathom Publishing in Anchorage designs, lays out, and mails the newsletter. Past issues of the newsletter are posted on the Chapter website.

Oncorhynchus

Allen Bingham
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Anchorage, AK 99522-1804

RETURN REQUESTED - DO NOT FORWARD

2005 Alaska Chapter Officers

President Hal Geiger, ADF&G/CF, P.O. Box 240020, Douglas 99824-0020, 907-465-4257, Harold_J_Geiger@fishgame.state.ak.us

President-Elect Scott Maclean, ADNR, Habitat Mgmt. & Permitting, 550 West 7th Ave., Suite 1420, Anchorage 99501, 907-269-6778 wk, 907-622-6245 hm, scott_maclean@dnr.state.ak.us

Vice President (Acting) Carol M. Kerkvliet, Sport Fish Division, ADF&G, 3296 Douglas Place, Homer, 99603-8027, 907-474-6044

Treasurer Ray Hander, Fairbanks Fish and Wildlife Field Office, 101 12th Ave., Room 110, Fairbanks 99701, 907-0402, Fax: 457-3656, ray_hander@fws.gov

Secretary Bob Piorkowski, ADF&G/CF, 1225 W. 8th St., Juneau 99802, 907-465-6109, Robert_Piorkowski@fishgame.state.ak.us

Past President Tim Joyce, USFS, PO Box 280, Cordova 99574-0280, 907-424-4747, Fax: 424-7214, tjoyce@fs.fed.us

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.

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)

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.
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 North American Journal Journal of Aquatic Animal Health¹
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