



Gill Raker Gazette

The Newsletter of the Idaho Chapter of the American Fisheries Society

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President's Message:

Please join us in Boise! By Ernest Keeley, ICAFS President

Another year has passed, and we are once again getting ready to assemble for our annual meeting. I hope all of you will be able to join us in Boise for what promises to be one of the biggest meetings for the Chapter on record. As is the case every year, the EXCOM has been busy making arrangements, this year under the guidance of President-Elect Jason Vogel. To date we have 63 oral presentations and 26 poster presentations listed on the agenda. As a Chapter, we have been fortunate to have had a series of leaders that have tried to make the meeting as inviting to as many people involved with fisheries biology and management as possible. This diversity is reflected in the far ranging topics that will be presented at this year's meeting. The opening theme for 2011 will be based around the subject of Native People and fisheries management, and Jason has invited a number of speakers to provide presentations to help us understand the perspectives and goals of Tribal fisheries management.



*Ernest Keeley,
AFS President*

We are also continuing with the growing tradition of hosting a one day workshop, the day before the formal meeting begins. This year Doug Munson has organized a workshop centered on the theme of biosecurity in hatcheries and field sampling. Given some of the growing problems with the movement of pathogens and non-native species in aquatic ecosystems, this workshop is particularly timely.

Don't forget to bring your check books. As always, the Fundraising Committee has been hard at work assembling a vast array of items for auction, and the return of Uncle Ted as auctioneer promises to keep the social evening moving along, as does the return of the 'FishJam'. Although registration fees pay for holding the meeting, our fund raising at the meeting is the reason why we can continue to support very worthy charities; everything from public education of fisheries management to supporting travel for students to present their research findings. So please support our funding raising efforts with your dollars!

Finally, as my year as Chapter President comes to a close, I want to thank all the members of the Chapter for their hard work, and I want to thank the EXCOM for the privilege of working with them. It has been a great experience for me, mainly because I was able to get to know some of you much better. As I have said before, whether you realize it or not, I think the State is lucky to have so many dedicated men and women who work tirelessly at protecting and conserving our fish populations.



Headline photo courtesy of Captain Steve!



2011 Workshop: Fisheries & Hatchery Bio-Security

There will be a 1-Day Workshop on Tuesday, March 1st, 2011 from 9-5pm at the IDFG Nampa Research Office.

Participants will learn about the pathogens and nuisance species of concern, how to initiate a Bio-Security Program, as well as the disinfection of equipment and bio-security audits.

The Workshop is sponsored by the Idaho Chapter American Fisheries Society and open to all. Cost is \$20 and includes lunch.

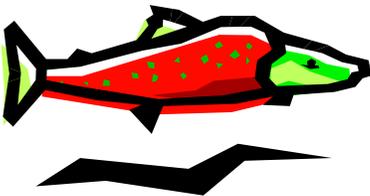
To register, visit:

<http://www.idahoafs.org/meeting.php>



Workshop agenda and Registration on-line at <http://www.idahoafs.org/>

Join the 2011 Spawning Run!



The third annual "Spawning Run" will occur at the 2011 Idaho Chapter of the American Fisheries Society Annual Meeting. The 5K course will follow the Boise Greenbelt along the Boise River and start at 6:15 am on Thursday morning. Biomark has generously offered to sponsor this year's run providing official timing and results. All participants will receive a t-shirt commemorating the event. For a scenic and refreshing start to the day, everyone is encouraged to participate by either walking or running. Sign-up sheets will be available at the registration table. Pre-spawning staging will occur on Thursday at 6:00am at the registration table. Run/walk will start at 6:15am. This is great way to interact with fellow AFS members so bring your running/walking shoes to the meeting and join in!

FishJam Version 2011

After a year on the European tour the AFS "FishJam" is back to provide entertainment on Thursday night at the banquet! If you are a musician and would like to participate bring your instrument or your voice and take part in the 2011 Idaho AFS FishJam. After an unplugged practice jam session on Wednesday night March 2, there will be a stage and sound system for the real FishJam on Thursday, March 3rd after the fundraiser activities. The sound system will be provided, so all you need is an instrument. If you would like more information, contact Justin Bretz at justinb@nezperce.org.



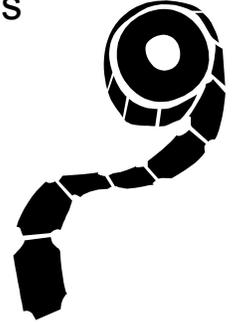


Fly Tyers!

Warm up your vises and bring your handcrafted flies to the 2011 ICAFS meeting to dress up *O. idahoii*.

Flies of all shapes and sizes are encouraged. As an added incentive,

**FOR EVERY HALF-DOZEN FLIES YOU BRING,
YOU GET 3 GENERAL RAFFLE TICKETS!**



6 handcrafted flies = 3 free raffle tickets!!

2011 ICAFS Officer Nominations: They need your VOTES!!

At the annual business luncheon meeting on Thursday March 3, 2011 during the annual meeting, chapter members will vote for their leadership. Mike Peterson, our Nominations Committee Chair, has identified some extraordinary candidates.

Andy Dux: Andy is the Principal Fishery Research Biologist with the Idaho Department of Fish and Game (IDFG) in Coeur d'Alene. He supervises the Lake Pend Oreille and Dworshak Reservoir research programs, a position he has held for 2.5 years. Andy is an Idaho native and received his BS in Fishery Resources from the University of Idaho (UofI) in 2000. He worked as a technician for the US Fish and Wildlife Service in Alaska and for the IDFG Nampa Research office before starting graduate school. Andy did his thesis work on lake trout suppression feasibility in Glacier National Park and received his MS in Fisheries Management from Montana State University in 2005. He then worked for three years as a Fishery Research Biologist with the Wyoming Game and Fish Department doing statewide lake and reservoir research. Andy has been active in the Idaho, Montana, and Colorado-Wyoming chapters of AFS since first being exposed to AFS as a member of the Palouse Unit at the UofI. He served as vice-president of the Palouse Unit as an undergraduate. During graduate school, he founded the Montana State Student Subunit and served as president during its first year. Andy co-chaired the Continuing Education Committee in the CO-WY Chapter. During his undergraduate years at the UofI, Andy helped Mike Peterson pass his classes. Years later, Mike is still looking for help and asked Andy to run for his current Nominations Chair position.

Mary Faurot: Mary would be honored to have your vote for Nominations Chair! Mary has a BS in Biology (marine) from Florida State University. After working for awhile in warm oceans, she came to Yellowstone National Park as a naturalist and fisheries technician, and learned to love cold water, salmonids, fly-fishing, and mountains. She earned a Masters in Fish and Wildlife Management from Montana State University, then worked as a professional fisheries biologist for the Salish/Kootenai Tribe in Montana, the US Fish and Wildlife Service in Kenai, Alaska, and the Umpqua National Forest in Tillamook, Oregon. She came to Idaho in 1993 with the Payette National Forest in McCall, and moved to the Boise National Forest as Forest Fish Biologist in 2009. She is an avid mentor to students and has been active with the AFS Hutton and Fish in the Classroom programs. She has served as secretary-treasurer, Vice-President, and President-elect for Idaho AFS. She looks forward to working with EXCOM again, and helping to perpetuate the leadership of Idaho AFS with motivated, dedicated, diverse candidates.

Continued on next page...



2011 ICAFS Officer Nominations: Bios continued...

POSITION: Secretary/Treasurer

Kevin Meyer: Kevin has for the last 12 years been a Fisheries Research Biologist for the Idaho Department of Fish and Game. Previously he was for 2.5 years a fisheries biologist for the Winema National Forest. He received a Bachelor's degree from Michigan State University and a Master's degree from Idaho State University. Kevin has been a member of the American Fisheries Society since 1991, and has been an active member in the Idaho Chapter, serving as Fundraising Co-Chair (2000-01), serving on EXCOM as the Nominations Chair (2002), and was the Chair of the Mentoring Committee (2007-08). Kevin considers his involvement in AFS activities very rewarding and is anxious to once again assist the Idaho Chapter is accomplishing its mission of advancing fisheries science and developing and mentoring fisheries professionals.

Bill Horton: Bill has been a fisheries biologist with the Idaho Department of Fish and Game for 33 years, spending the last 23 in Boise in a variety of fish management jobs, and is currently the State Fisheries Manager. He earned his Bachelors degree from the University of Idaho in 1970. His activities in the ICAFS started in 1968 as a student and he is a life member of the American Fisheries Society. Bill was a founding member of the Palouse Unit of ICAFS, and has served the chapter on a variety of committees over the years, and as chair of three committees. He has also served the Western Division on the Membership Committee and the parent society on the Fish Management Chemicals Subcommittee of the AFS Task Force on Fishery Chemicals (rotenone and antimycin work). Bill has given a lot to the chapter over the years, but feels he has received more in return. As he works his way toward retirement, he would be honored to support and serve ICAFS as Secretary/Treasurer.

POSITION: Vice President

Joe Dupont: Joe is currently the Regional Fishery Manager with the Idaho Department of Fish and Game in the Clearwater Region where he has worked since 2008. Joe worked as a Regional Biologist for IDFG in the Panhandle Region from 2001 to 2008. Prior to joining the IDFG, Joe worked as a fisheries biologist for the Idaho Department of Lands (1996-2001) and Avista Utilities (1994-1996). Joe received an MS in Fishery Resources and a BA in Zoology from the University of Idaho. Joe attended his first ICAFS meeting in 1990 and has been going ever since. During this time, he has served on EXCOM as the nominations chair in 2006 and has regularly provided presentation on work he has been involved with. Joe has always looked forward to the annual ICAFS meetings and believes that there is no better fisheries conference that one can attend due to the rich diversity of presentations, directed efforts to improve our fisheries, and the interaction one can have with the multitude of people that attend. Joe is honored to be nominated as Vice-President of the ICAFS; and if elected, he assures the membership that he will strive to uphold the greatness this meeting and chapter has become and would be entirely committed to the responsibilities of chapter leadership.

Jay Hesse: Jay Hesse serves as the Research Division Director for the Nez Perce Tribe Department of Fisheries Resources Management. Jay received BS and MS degrees in Fisheries Management from Michigan State University. He has been a long standing member of the Idaho, Oregon, and Michigan Chapters of AFS and has presented multiple talks, moderated sessions, and/or organized spawning runs at all three chapter meetings. AFS has helped Jay broaden his perspective on the role of fisheries management to society as whole, improve his public speaking ability, and develop a diverse professional support system (people and printed materials). Jay has avoided taking on an AFS EXCOM position in past in order to maintain a balance between professional and personal activities. He now feels the time is right to actively serve AFS and would be excited to fulfill the responsibility of Vice President. Jay's interest in collaborative management and effective communications makes him well suited to help lead the Idaho Chapter while we host the Western Division meeting in 2013.



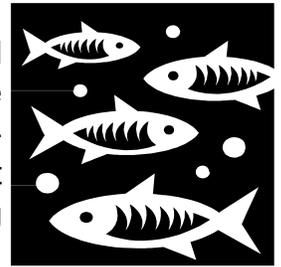
Mentoring Committee

There will be a bulletin board available at the Annual Meeting in Boise where you can post job announcements. Please bring written announcements for any and all temporary positions you plan to fill for the coming field season. And students, plan on stopping by the "Jobs Board" to see what interesting opportunities might be out there.



Join an AFS Committee in 2011!

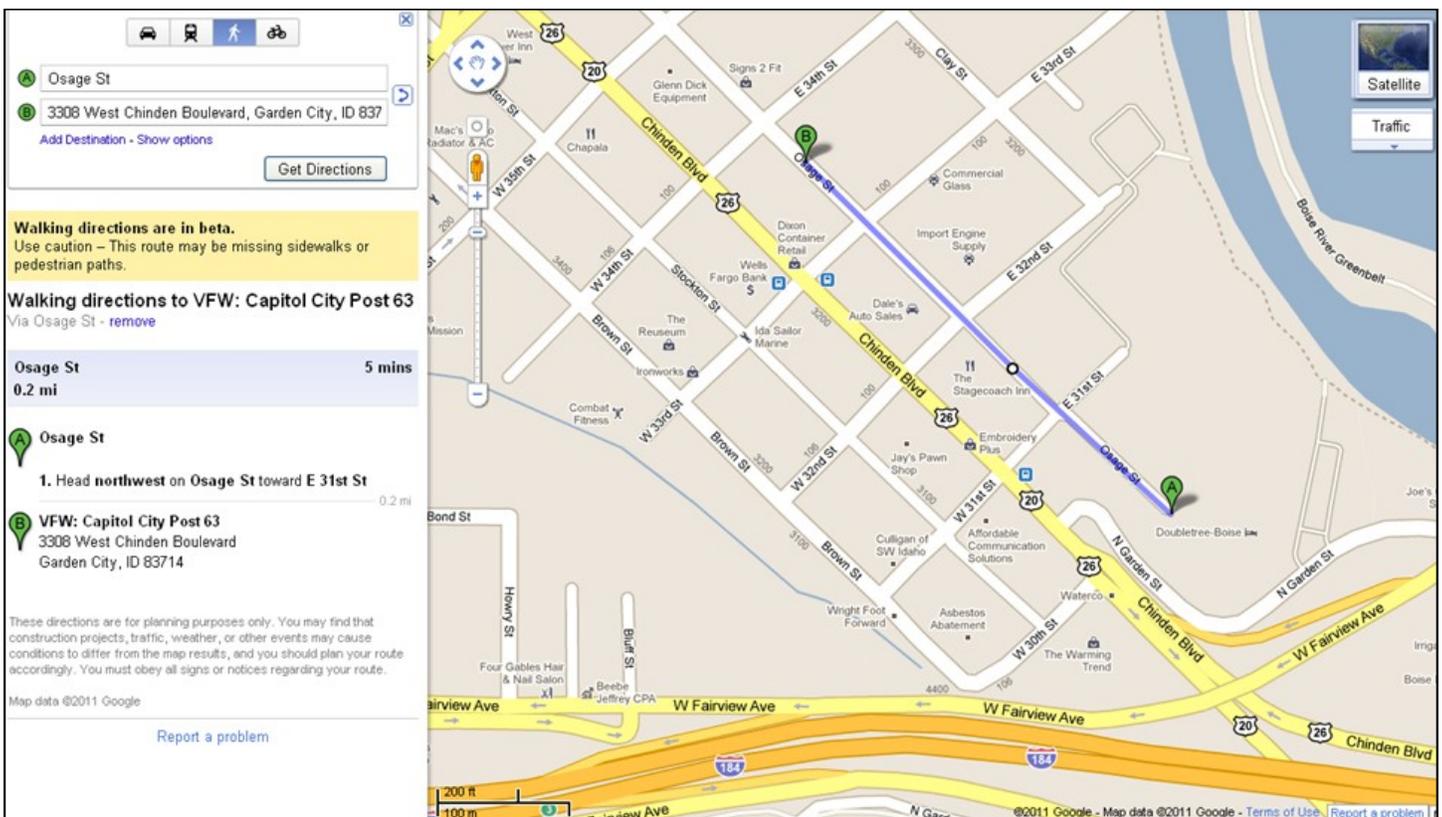
Involvement with the American Fisheries Society means something different to all of us. If you are reading this, then AFS means something to you. If you would like to participate in the chapter but aren't sure how, consider joining one of the various committees. Whether you're interested in becoming a chairperson or just want to check out what's going on, attend one of the committee meetings during the box lunch on Wednesday, March 2nd. Chose from the following committees:



- Anadromous Fish
- Aquaculture
- Fundraising
- Fish Habitat
- Public Education
- Native Fish
- Membership
- Mentoring

Student Mentoring Social

Please join students at the Student Mentoring Social on Tuesday, March 2nd at 6:15pm. We will be having pizza and beer at the VFW: Capitol City Post 63, two blocks from the hotel. A group of professionals will meet with students at the VFW prior to the start of the social, providing an intimate setting that will allow students and professionals to get to know each other. Once the social is underway, the mentors will take the students to meet more professionals. Mentors will facilitate networking between the student and other professionals with similar interests. If you are interested in being a mentor, please email Kelly Stockton at stoc4872@vandals.uidaho.edu.





American Fisheries Society: Western Division

AFS Western Division Riparian, Watersheds and Habitat Committee - 2011 Riparian Challenge Entry Format and Evaluation Criteria -

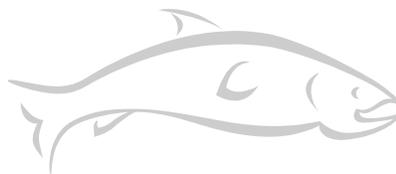
The Riparian Challenge was established as an annual event to encourage continued on-the-ground accomplishments in riparian habitat management in the region encompassed by the Western Division of the American Fisheries Society. Entries must document riparian habitat management efforts where resource values will be or have been improved within a watershed. Examples of these resource values include, but are not limited to:

- ◆ Streambank stability
- ◆ Water quality
- ◆ Vegetative diversity and recovery
- ◆ Stream flows
- ◆ Subsurface water supplies
- ◆ Aquatic/fish habitat
- ◆ Terrestrial wildlife habitat
- ◆ Forage production
- ◆ Recreation/aesthetic qualities
- ◆ Education

Entries must be type written and must not exceed 4 pages of text. An additional 3 pages may be used for photographs and maps. Land use plans, research projects, handbooks or technical guidelines are not eligible. These are products that are not actually on-the-ground accomplishments or achievements. Projects must also be completed; projects in planning do not qualify. Individual projects versus program accomplishments are preferred to simplify comparisons across entries. Entries are reviewed relative to the three categories including U.S. Forest Service projects, Bureau of Land Management projects, and projects completed by other entities.

All entries must be submitted as electronic Adobe pdf documents (preferable) or Microsoft Word documents. To reduce file sizes, please compress photographs within Microsoft Word prior to emailing or converting to pdf files. Hard copies will not be accepted. Directions for submitting entries are included below. Include the following information on the first page of each entry (not included in page total):

- ◆ *Project Title*
- ◆ *Agency name or private industry*
- ◆ *Name of BLM Field Office or Resource Area or name of USFS Ranger District and National Forest*
- ◆ *Primary contact person, phone number, and email address*
- ◆ *Date the plan was initiated and date project was or will be completed*



AFS Western Division Riparian, Watersheds and Habitat Committee - 2011 Riparian Challenge Entry Format and Evaluation Criteria Continued -

Each typed entry should accurately describe the project, including background, objectives and results. Include photographs and maps as part of the document. The entry should be completed according to the following format. Point values are in parentheses.

- ◆ *Correct entry of information on first page (8 points)*
- ◆ *Project title (2 points)*
- ◆ *Project location (2 points)*
- ◆ *Project need and the goals and objectives related to addressing the project need (10 points)*
- ◆ *Participants who participated in the project (3 points)*
- ◆ *Project scope – tasks completed to achieve the project goals and objectives (65 points)*
 1. *What species of fish and wildlife were affected?*
 2. *Which resource values were improved?*
 3. *Does the project address habitat for threatened or endangered species?*
 4. *How many stream miles and/or acres of riparian habitat were improved?*
 5. *Did the project involve an interdisciplinary process? Who was involved?*
 6. *Did the project involve multi-agency cooperation? Federal government, state government, private landowners, corporations, conservation groups, etc.*
- ◆ *Monitoring plan components (5 points)*
- ◆ *Plan for information dissemination to the public (5 points)*

Winners will be selected in the following categories (depending on the number of submissions).

- ◆ *BLM: Best Resource Area or Field Office*
- ◆ *Forest Service: Best Ranger District*
- ◆ *Other: Best Riparian Project*

Winners will be selected on the basis of total points received from the judges for all projects/plans submitted by an office. Points will be awarded based on the resource protection afforded by each project/plan. Small projects are important and valuable; a number of small projects within a field office, resource area or district can equal the point total of an extensive multi-resource cooperative management effort. The Riparian, Watersheds and Habitat Committee of the Western Division of AFS will make selections.

Completed entries should be submitted to the Western Division Riparian Committee Chair at the email address listed below and **must be received by April 15, 2011**. Entries with file sizes less than 5 mb may be emailed to Troy Brandt at tbrandt@riverdesigngroup.net. Entries exceeding 5 mb may also be posted to a dedicated ftp site or saved to a CD and mailed to the address below. Contact Troy Brandt for directions to access the ftp site. The high scorer in each agency/entity category will be declared the winner. Scoring sheets will be made available upon request.

Troy Brandt, Riparian Challenge Committee Chair
311 SW Jefferson Avenue, Corvallis, Oregon 97333
503-307-8367, tbrandt@riverdesigngroup.net



2011 Annual Meeting!

Come and attend this great annual event!

Native Peoples Fisheries:



Perspectives on Past, Present, and Future

Date and Location: March 2-4, 2011. Doubletree Hotel Boise-Riverside, 2900 Chinden Boulevard, Boise, Idaho, (208) 343-1871

Great Conference Some Highlights Include;

- Plenary Speakers, Great Student, Professional Talks and Posters
- Annual Spawning Run (participate and get free T-shirt)
- Banquet, Social, Fundraiser, and FISH Jam (musical talent from within)



Agenda for Wednesday, March 2

8:00-8:20 AM **Opening Remarks and Presidential Message**
ICAFS President, Ernest Keeley

Plenary Session: Native Peoples Fisheries: Perspectives on Past, Present, and Future

Location: Juniper/Laurel

8:20-8:30 AM **Introduction to Plenary Session**
Jason Vogel, Moderator

8:30-9:10 **Fish in the dirt: archaeological perspectives on native fisheries of the Pacific Northwest**
Sarah Campbell, Western Washington University

9:10-9:35 **To Be Determined**
Eric Quempts, Confederated Tribes of the Umatilla Reservation

9:35-10:00 **A Tribal perspective: The importance of Nez Perce Fishing and Treaty Rights to sustainable fisheries in the Snake Basin**
Joe Oatman, Nez Perce Tribe Department of Fisheries Resources Management

10:00-10:30 **BREAK**

10:30-10:55 **Implementing an integrated, ecosystem-based restoration program to recover native fish species in the Kootenai River: a Tribal approach**
Susan Ireland, Kootenai Tribe of Idaho

10:55-11:20 **Shoshone-Bannock Fisheries: Perspective on Past, Present, Future**
Lytle Denny, Shoshone-Bannock Tribes

11:20-11:45 **The limits of indigenous rights and salmon fisheries conservation in the state of Idaho: A common perspective and paradox towards management**
Irene Shaver, Sammy Matsaw Jr., Shoshone-Bannock Tribes

11:45-11:50 **Concluding remarks**
Jason Vogel, Moderator

11:50-1:20 PM **BOX LUNCH: COMMITTEE BREAKOUTS (room assignments)**

Session 1: Related Topics to Plenary and Big Picture Topics

Location: Juniper/Laurel

1:20-1:25 PM **Introduction to Session,**
Jason Vogel, Moderator

1:25-1:45 PM **Snake Basin Hatchery and Harvest Management Coordination: Tools For Building Consensus**
Becky Johnson, Nez Perce Tribe, Sam Sharr, Idaho Department of Fish and Game

1:45-2:05 PM **Adapting model results for wood recruitment to streams for use in restoration and conservation planning for a Tribal fishery**
Angelo Vitale, Coeur d'Alene Tribe

2:05-2:25 PM **Toward conceptualizing the whole: Observing aquatic species in their natural habitat**
Mary Edwards, Nez Perce Tribe

2:25-2:45 PM **Distribution, behavior, and habitat of spawning adult Pacific lamprey (*Lampetra tridentata*) translocated into tributaries of the Snake and Clearwater Rivers**
Brian J. McIlraith, University of Idaho

2:45-3:05 PM **Born to be wild: Salmon responses to natural disturbance**
Russ F. Thurow, USDA-Forest Service Rocky Mountain Research Station

3:05-3:25 PM **Broad-scale stray rate of Pacific Rim Chinook salmon migrating beyond Bonneville Dam to the interior Columbia River Basin**
Jon E. Hess, Columbia River Inter-Tribal Fish Commission, Hagerman Genetics Lab

3:25-3:50 PM **BREAK**



Agenda for Wednesday, March 2 Continued...

- 3:50-4:10 PM **Acoustic telemetry of California sea lions in relation to adult salmonids in the Bonneville Dam tailrace**
Doug Hatch, Columbia River Inter-Tribal Fish Commission
- 4:10-4:30 PM **The spatial scale and ecological determinants of homing in a wild Chinook salmon population**
Ellen J. Hamann, University of Idaho
- 4:30-4:50 PM **Monitoring and modeling stream temperature patterns associated with climate change across the north-west US**
Daniel J. Isaak, USDA-Forest Service Rocky Mountain Research Station
- 4:50-5:10 PM **Flow regime, biotic interactions and temperature determine differential responses of four trout species to projected climate change in the western US**
S.J. Wenger, Trout Unlimited
- 5:10-5:15 PM **Concluding comments and wrap-up**
- 6:00 PM **STUDENT MIXER at Veterans Building!! Map on page 5.**
- 8:30-11:00 PM **AFS FishJam Practice – Aspen Room**

Agenda for Thursday, March 3 - Concurrent sessions

- 6:00-7:00 AM **ICAFS Spawning Run – Location: Meet in Ballroom Lobby**
Sponsored by: 
- | | |
|---|---|
| <p>Session 2-A: Anadromous Fish ecology and management
Moderator: Jay Hesse
Location: Juniper</p> <p>8:00-8:10 Announcements and introduction to Session</p> <p>8:10-8:30 Influences of hatchery supplementation, spawner distribution and habitat on genetic structure of Chinook salmon (<i>Oncorhynchus tshawytscha</i>) in the South Fork Salmon River, ID
Andrew Matala, Columbia River Inter-Tribal Fish Commission</p> <p>8:30-8:50 A demographic evaluation of hatchery- and natural-origin Chinook salmon (<i>Oncorhynchus tshawytscha</i>) and its impact on the population genetic structure in the South Fork Salmon River, ID.
William Young, Nez Perce Tribe</p> <p>8:50-9:10 Chinook salmon escapement monitoring using an underwater video counting station
Travis Covell, Nez Perce Tribe</p> <p>9:10-9:30 Monitoring adult Chinook salmon (<i>Oncorhynchus tshawytscha</i>) escapement in Bear Valley Creek, Idaho using underwater time-lapse video surveillance technology
Lytle Denny, Shoshone-Bannock Tribes</p> <p>9:30-9:50 A bioenergetic evaluation of changes in habitat quality for salmonid fishes: calculating the benefit from stream fertilization in the Salmon River
Steven O. Campbell, Presenter, Idaho State University</p> | <p>Session 2-B: Native fish ecology and management
Moderator: Cathy Gidley
Location: Tamarack</p> <p>Announcements and introduction to Session</p> <p>Phylogenetic relationships of cutthroat trout: does evolutionary history reflect geological history?
Janet L. Loxterman, Idaho State University</p> <p>Estimating rates of pelican predation on Yellowstone cutthroat trout in the Upper Blackfoot River system
Matt T. Green, Idaho State University</p> <p>Title: Age-0 rainbow trout overwintering use of spring-flow tributaries of the Henrys Fork of the Snake River
Jim DeRito, Henry's Fork Foundation</p> <p>Development of conservation hatchery techniques for a Bonneville cutthroat trout population
Bryan Grant, Idaho Department of Fish and Game</p> <p>Population-level effects of stocking hatchery rainbow trout in wild trout streams
Brett High, Idaho Department of Fish and Game</p> |
|---|---|



Thursday, March 3 - Concurrent sessions continued...

- 9:50-10:15 AM **BREAK**
- Session 2-A: Chinook salmon ecology and management**
Moderator: Jay Hesse
Location: Juniper
- Session 2-B: Native fish ecology and management**
Moderator: Cathy Gidley
Location: Tamarack
- 10:15-10:35 **Predicted climate change effects on streambed scour and risks to Chinook salmon survival in the Middle Fork Salmon River, Idaho**
 Jaime R. Goode, University of Idaho
- 10:35-10:55 **Effects of experimental salmon carcass and analog additions on resident trout growth rates, abundance, and production**
 Scott F. Collins, Idaho State University
- 10:55-11:15 **Smolt-to-adult survivals of Snake River fall Chinook salmon supplemented upstream of Lower Granite Dam**
 Bill Arnsberg, Nez Perce Tribe
- 11:15-11:35 **Factors affecting early life history and growth of naturally-produced fall Chinook salmon in the lower Snake River, Idaho**
 John M. Plumb, University of Idaho
- 11:35-11:55 **Determining spatially distinct differences in juvenile migration strategies in wild Fall Chinook salmon (*Oncorhynchus tshawytscha*) in the Snake River, Idaho**
 Jens Hegg, University of Idaho
- 11:55-2:10
- BUSINESS LUNCHEON**
Location: Laurel/Ponderosa
- Session 3A: Steelhead ecology and management**
Moderator: Tim Copeland
Location: Juniper
- Session 3B: Management, Education, and Methods Application**
Moderator: Tom Curet
Location: Tamarack
- 2:10-2:15 **Introduction to Session**
- 2:15-2:35 **Salmon and Steelhead Performance Measure Evaluations at the Tributary, Major Population, DPS, and ESU Scales**
 Jason Vogel, Nez Perce Tribe
- 2:35-2:55 **Spatial and temporal variation in juvenile steelhead (*Oncorhynchus mykiss*) growth and consumption in a hydrologically altered watershed**
 Knut Marius Myrsvold, University of Idaho
- 2:55-3:15 **An evaluation of spatial and temporal natural steelhead population abundance in the Imnaha River Subbasin**
 Neal Espinosa, Nez Perce Tribe
- Investigation of smoltification in an impounded, ad-fluvial redband trout population in the Snake River Drainage, Idaho
 Dean E. Holecek, University of Idaho
- Hybridization patterns in redband trout reflect multiple introduction and invasion sources of non-native cutthroat and hatchery rainbow trout in a high-profile river in Idaho
 Helen Neville, Trout Unlimited
- Age-growth, natural mortality, and models predicting growth of redband trout in high desert streams of Idaho
 Daniel J. Schill, Idaho Fish and Game
- Population demographics of Catostomids in Iowa's large rivers: Effects of discharge on recruitment dynamics and growth
 Michael C. Quist, University of Idaho
- Detecting the disjunctly distributed: the case of the northern leatherside chub in Idaho
 Jason R. Blakney, Idaho State University
- Introduction to Session**
- Angler tag reporting evaluations ... or "Why should I bother to turn in this fish tag"??
 Steven Elle, Idaho Department of Fish and Game
- Closing the Loop on the Trout in the Classroom Program**
 Joe Chapman, Idaho Department of Fish and Game
- Accuracy of removal electrofishing estimates of trout abundance in Rocky Mountain streams**
 Kevin A. Meyer, Idaho Department of Fish and Game



Thursday, March 3 - Concurrent sessions continued...

- | | | |
|--------------|--|--|
| 3:15-3:35 PM | Establishment of a genetic baseline using SNPs to estimate the composition of wild adult steelhead mixtures passing Lower Granite Dam
Michael W. Ackerman, Idaho Department of Fish and Game | Movements of individual trout in response to electrofishing
Michael K. Young, Rocky Mountain Research Station, Montana |
| 3:35-4:05 | Testing the power of Single Nucleotide Polymorphism markers (SNPs) for Parentage Based Tagging of Snake River hatchery steelhead
Craig A. Steele, Idaho Department of Fish and Game | An evaluation of bull trout <i>Salvelinus confluentus</i> bycatch from predator reduction netting in Lake Pend Oreille
Nicholas C. Wahl, Idaho Department of Fish and Game |
| 4:05-4:25 | Physiological characteristics of steelhead kelts in the Snake River, Idaho
Jessica Buelow, University of Idaho | Circle hooks versus "J" hooks – do they matter when fishing for white sturgeon?
Joe DuPont, Idaho Department of Fish and Game |
| 4:25-4:45 | Migration timing, run characteristics and selected plasma metrics of steelhead trout kelts from three Clearwater River tributaries, Idaho
Bryan Jones, University of Idaho | Nutrient enhancement in Dworshak Reservoir and its potential for benefitting a kokanee <i>Oncorhynchus nerka</i> population.
Sean M. Wilson, Idaho Department of Fish and Game |
| 4:45-5:10 | Modeling physiological changes in energy stores of sexually mature and post spawning steelhead trout in the Columbia/Snake River
Zachary L. Penney, University of Idaho | Use of wild-caught and transplanted channel catfish to enhance fishing opportunities in small ponds and reservoirs
Joe Kozfkay, Idaho Department of Fish and Game |

5:15-6:15 PM

POSTER SESSION!

Location: Aspen

Migration timing, growth, and estimated parr-to-smolt survival rates of wild Snake River spring-summer Chinook salmon from the Salmon River basin, Idaho, to the lower Snake River
 Stephen Achord, NOAA Fisheries

Evaluating physical marking techniques for juvenile burbot
 Neil Ashton, University of Idaho/Kootenai Tribe of Idaho

Mitigating for the loss of marine nutrients from salmon: Ecological effects of salmon carcass and analog additions to headwater aquatic and terrestrial systems in Idaho
 Colden V. Baxter, Idaho State University

Resident trout consumption of salmon carcass and analog added to tributaries of the N. Fork Boise River, Idaho
 Alex Bell, Idaho State University

Distribution and diet of largemouth bass (*Micropterus salmoides*) in the lower Boise River, Idaho
 Camrin D. Braun, The College of Idaho

Development and assessment of a panel of novel SNP assays for population differentiation of westslope cutthroat trout
 Nathan Campbell, Columbia River Inter-Tribal Fish Commission

Genetic diversity and relatedness assessment in captive stock Bonneville Cutthroat
 Stacey Dauwalter, Pacific States Marine Fisheries Commission

Use of membrane filtration florescent antibody test (MF-FAT) to identify *Renibacterium salmoninarum* within eggs of sexually mature female Chinook salmon: An attempt to establish correlative relationships between detection of bacteria in the eggs, ovarian fluid and ELISA levels in the kidney
 Mary Edwards, Nez Perce Tribe



5:15-6:15 PM

POSTER SESSION! Continued...***Location: Aspen*****Use of a tilted wedge wire coanda screen as an outmigrant fish trap on a dam spillway**

Anne Marie Emery, Henry's Fork Foundation

Whitefish passage of the 6X Diversion on the Big Lost River

Selena Gregory, Mackay Jr./Sr. High School

Scale resorption in migrating and spawning steelhead (*Oncorhynchus mykiss*)

Kala Hamilton, Idaho Department of Fish and Game

Reproductive Success of Reintroduced spring-run Chinook salmon in the Hood River, Oregon

Maureen A. Hess, Columbia River Inter-Tribal Fish Commission

Massive air and stream temperature sensor networks for studying microclimatic variation in mountain landscapes of the northwest U.S.

Daniel J. Isaak, U.S. Forest Service, Rocky Mountain Research Station

Comparison of spring/summer Chinook salmon life histories and resulting scale patterns in jacks, mini-jacks, and precocial male parr

June Johnson, Idaho Department of Fish and Game

Daly and Sturgill Creek habitat improvement/monitoring project

Andy Knight, Idaho Power Company

Species composition as an indicator of environmental quality in an impacted stream system

Timothy J. Kuzan, University of Idaho

Burbot Extensive Rearing – Exploring Short Term Solutions for Burbot Rehabilitation in the Kootenai River

Corie Laude, Idaho Department of Fish and Game

3rd Annual Western Division Student Colloquium

Amy Long, University of Idaho

Develop a naturalized Chinook salmon (*Oncorhynchus tshawytscha*) population in the Yankee Fork Salmon River using volitional adult spawner and juvenile smolt releases

Carlos Lopez, Shoshone Bannock Tribes

Fishery assessments on the Duck Valley Reservation, Idaho and Nevada, 2007-09

Terry Maret, U.S. Geological Survey, Boise

Sensitivity of off-channel salmon rearing habitats to changing base flows in unconfined low-gradient mountain streams

Jim McKean, U.S. Forest Service, Rocky Mountain Research Station

Genomics of thermal adaptation in redband trout

Shawn R. Narum, Columbia River Inter-Tribal Fish Commission

Reclamation of Historic Wetlands for the Rehabilitation of Salmonid Habitat within North Central Idaho's Nez Perce Reservation

Justin Peterson, Nez Perce Tribe

Modeling The effects of anadromous fish nitrogen on riparian forest carbon balance

Andrea J. Noble Stuen, University of Idaho

Use of natural markers to describe Snake River spring/summer Chinook salmon life history characteristics and environmental correlates.

Jeffrey M. Reader, University of Idaho

Adult abundance & productivity of spring Chinook salmon in Lolo and Newsome creeks- Nez Perce Tribal hatchery monitoring & evaluation results

Sherman Sprague, Nez Perce Tribe



5:15-6:15 PM

POSTER SESSION! Continued...

Location: Aspen

Energy and proximate content of selected tissues from Snake River steelhead trout kelts sampled at Lower Granite Dam

William C. Schrader, University of Idaho

Modeling water and small particle residence times in two rearing units used for intensive culture of steelhead trout in Idaho

Kelly Stockton, University of Idaho

Hooking and landing success and deep hooking rates for stream-dwelling trout fished with baited circle and J-hook.

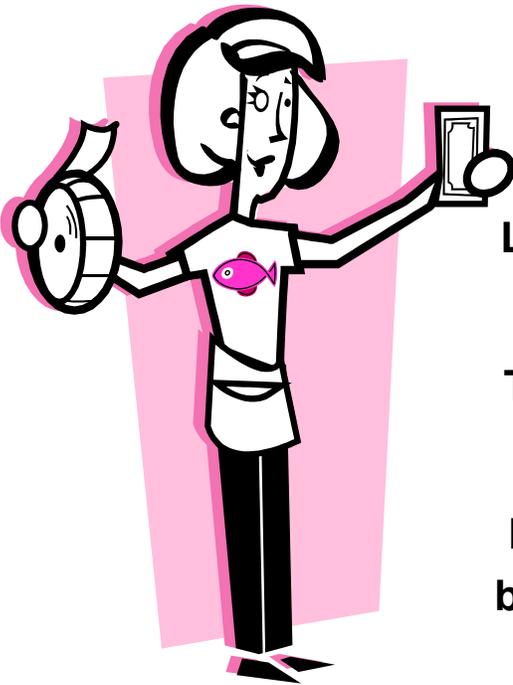
Christopher L. Sullivan, Idaho Department of Fish and Game

The importance of marine nutrient subsidies in mountainous riparian forests

Tadd A Wheeler, University of Idaho

Thursday, March 3: Evening Social and Auction!!

Party starts at 6:30pm in the Laurel/Ponderosa Rooms.



Featuring:

- Food & Beverages**
- Live & Silent Auction**
- Special Raffles**
- Tons of Raffle Prizes**
- &**
- Live Music provided by the AFS FishJam!***



***Enjoy talent from within the chapter.
Everyone is welcome to participate.
Bring your voices and/or instruments!!!***



Agenda for Friday, March 4

Session 4: Contributed Papers

Moderator: Dan Scaife

Location: Juniper/Laurel

- 8:00-8:10 AM Announcements and Introduction to Session
- 8:10-8:30 **An Evaluation of Underwater Epoxies to Permanently Install Temperature Sensors in Mountain Streams**
Dona Horan, Rocky Mountain Research Station
- 8:30-8:50 **Evaluating the effects of roads on watershed processes and fisheries in a North Fork Coeur d'Alene River tributary using the GRAIP model: potential uses and implications**
Aaron Prussian, US Forest Service
- 8:50-9:10 **West Fork Lake Creek Stream and Wetland Enhancement Project**
Stephanie Hallock, Coeur d'Alene Tribe Fisheries Program
- 9:10-9:30 **Climatic and geomorphic factors affecting temperature sensitivity of streams across the Interior Columbia River basin**
Andy Hill, Rocky Mountain Research Station
- 9:30-9:50 **Is weighted usable area a valid proxy for egg-smolt survival for juvenile Chinook salmon?**
James V. Morrow National Marine Fisheries Service
- 9:50-10:20 **BREAK**
- 10:20-10:40 **Use of seismic air guns to reduce survival of salmonid eggs and embryos: a pilot study**
Benjamin Cox, University of Idaho
- 10:40-11:00 **Validation of Diagnostic Assays to Screen Broodstock for *Flavobacterium psychrophilum* Infection**
Amy Long, University of Idaho
- 11:00-11:20 **Evaluation of Virkon Aquatic toxicity and application to disinfect invasive mollusk infested field and hatchery gear**
Kelly Stockton, University of Idaho
- 11:20-11:40 **Species profiling of *Misgurnus anguillicaudatus*: Ecological characteristics of a little known but proliferating invader**
Alexander N. Urquhart, Boise State University
- 11:40-12:00 Best paper awards

Travel Safely!



Been to <http://www.idahoafs.org> lately?
If not, check it out!



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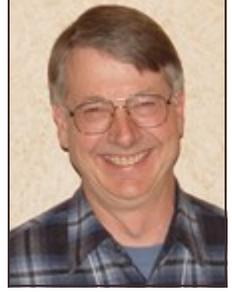
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Look for the next issue of the Gill Raker Gazette this fall. Submit articles to Dmitri Vidergar at dvidergar@usbr.gov

