



Fish Health Section



FHS NEWS

REMINDER!! - Please bookmark the new FHS website! We still have not been able to take down the old FHS website which is outdated and inaccurate.

The official link to the FHS website is: <https://units.fisheries.org/fhs/>

AFS Fish Health Section Facebook Site

The FHS now has a Facebook Page (<https://facebook.com/FishHealthSectionAFS>). Please 'Like' and follow us! Social media is expanding in the scientific arena, and we hope to expand our use for promoting meetings, sharing information, etc. If you have any questions, please feel free to contact Ben LaFrentz (benjamin.lafrentz@usda.gov).

Policy/Position Development Committee Update

Did you know that the AFS-FHS Policy/Position Development Committee (PPDC) provides a mechanism for generating official policy/position statements by the AFS-FHS? In brief, **any member** of the AFS-FHS can bring a proposed issue, policy, or position statement forward to the PPDC for review and discussion, after which a process outlined in the AFS-FHS procedural manual (https://1fjduf35czd41a05pqltrtej-wpengine.netdna-ssl.com/fhs/wp-content/uploads/sites/30/2019/09/FHS_Procedures_Manual_2019_revised_final.pdf) will be completed. Importantly, this is a primary mechanism by which any individual member can galvanize the AFS-FHS around a current, emerging, or future issue of importance.

Objectives, Process and Procedures for AFS-FHS Opinions, Positions & Policies

The AFS-FHS PPDC will be embarking on an endeavor to develop new opinions, positions and/or policies on issues that might impact AFS-FHS members and/or provide guidance on important issues. In addition to the usual mechanism described above, we will also be actively seeking input and comments from members on issues that should be addressed and what, if any, related positions/policies might say.

The PPDC envisions that issues to be addressed will fall into three primary categories that can be supported by scientific facts and published information:

1. an **opinion** (what the AFS-FHS thinks about an issue);
2. a **position** (what the AFS-FHS believes **should be** done about an issue); or,
3. a **policy** (what the AFS-FHS believes **must be** done about an issue).

Our hope is that once approved, such outputs will provide guidance to members that may also form the basis for the AFS-FHS to provide comments to other entities and/or advocate for action on an issue.

We also hope to identify any AFS positions and policies (and perhaps those of other organizations) that might be relevant to AFS members on aquatic animal health issues for listing on a future AFS-FHS webpage.

Please stay tuned for further information and as always, we encourage you to bring any issues you feel are important for the AFS-FHS to address to the PPDC.

Wishing you all the best,
Gael Kurath, Carl Smith, David Scarfe, Gary Marty, and Thomas Loch

FHS QA/QC Applications

The application period for the FHS Quality Assurance program for aquatic animal laboratories has opened for the calendar year 2020.

The application period for Tier 1 (prequalification) closed May 31, and Tier 2 (Recognition) will be open until June 30.

Currently twelve laboratories have completed the requirements for Tier 1 and the first application for Tier 2 is underway.

Additional details and support documents can be found on the Fish Health Section [website](#), or you can contact QA Committee chair Chris Wilson at 435-757-7493 or at <mailto:wetvet53@gmail.com>.

MEETINGS, WORKSHOPS AND COURSES

Educational Opportunities – Phibro Academy

Phibro Academy is a complimentary educational platform for producers, veterinarians, nutritionists and other industry professionals on business and animal health and nutrition related topics, crossing multiple species. Given today's COVID-

19 challenges, professionals around the globe have had to restrict their movement and have lost access to vital training activities. Phibro Academy helps fill the educational void and provides industry engagement by using current technologies and virtual connections. Content includes training resources, e-learning, videos, live and on-demand webinars, as well as materials the Phibro technical teams have presented in recent scientific conferences.

For more information, please see the attached flyer.

Grad Student and Post-doc Virtual Presentation Opportunity

Hello FHS members and friends!

Thank you all for participating in the AFS-FHS Student Summer Seminar Series! Graduate students and post-docs do not get many chances to network or share their research. With the cancellation of the EFHW, AFS-FHS, WFDW and other scientific meetings these opportunities have become even more limited. This summer seminar series provides an avenue for young scientists to get their names out there, but also give the rest of us a chance to stay connected.

This is a low-stakes forum for students and post-docs to introduce themselves to a mix of lab groups from across the country and show off the fruits of their labors. Please feel free to forward these announcements to anyone you feel should be looped in. You can find the Seminar Schedule and archived presentations/abstracts here: <http://z.umn.edu/fishhealthseminar>

Presentations consist of 20 minute talks followed by 10 minute Q&A and take place on Friday afternoons from 12-1 pm CST through July.

Everyone, please go [here](#) to sign up. You will notice two tabs...

Presenters (first tab): If you want to present, pick a timeslot and enter your info.

Everyone (second tab): If you want to receive a weekly reminder email from me, please enter your contact info.

If you have any questions, please do not hesitate to reach out.

Have a good day,
Nick Phelps
phelp083@umn.edu

Fish Welfare Symposium - UPDATED

The Fish Health Section will be co-organizing a symposium, entitled "[Fish Welfare](#) (ID number: 9479)", with the Fish Culture Section at the American Fisheries Society 150th Anniversary Meeting online in September, 2020.

Fish Welfare

Fish welfare is an aspect of fish husbandry that is often overlooked. Fish can sense and react to noxious stimuli, often displaying similar aversive responses to the ones we observe in mammals, including stress. Chronic and acute stress can cause anorexia, weaken the immune system, and induce other physiological abnormalities. Stressed fish may display abnormal behaviors or show abnormal swimming patterns. In the aquaculture of food fishes, pre-slaughter stress can cause changes in the texture and quality of fish fillets. In the ornamental fish industry and for fishes cultured and/or transported for stocking, shipping stress may be an important cause of mortality. Thus, fish welfare is not only a matter of ethical debates but a relevant issue for anyone that works with fish from fishermen and fish growers to researchers using fish as animal models. This symposium will aim to explore a variety of aspects of fish welfare, including: how welfare can be assessed, the use of naturally derived compounds to reduce shipping and handling stress, and the effects of fish welfare in the overall health of fish.

Organizers:

Jose Reyes-Tomassini (<mailto:jreyes-tomassini@francis.edu>), Jeff Heindel, Michelle L. "Mick" Walsh and Benjamin R. LaFrentz

Time and date TBA.

All symposia for the conference can be viewed here:

<https://afs.confex.com/afs/2020/webprogrampreliminary/SYMP.html?fbclid=IwAR30YFqABXMRn5x1uKJoj8xQvmyyOylEqMgAbkGdv9-N2exS-u-vbpOiUQ>

Ben LaFrentz (benjamin.lafrentz@usda.gov)

Health and Colony Management of Laboratory Fish - UPDATED

August 11-12, 2020

MDI Biological Laboratory

Location: Online

The MDI Biological Laboratory announces HCMLF Symposium 2020: Managing Fish Health, Husbandry, and Welfare in the Time of COVID19.

This two-day online symposium aims to be a platform for the research community to discuss aquatic animal facility challenges that have arisen during the coronavirus pandemic, and provide an opportunity for participants to share and learn about potential solutions. Topics covered will include health and welfare, sanitation, facility design, and other pertinent updates.

Click here for more details: <https://mdibl.org/course/hcmlf-symposium-2020/>

Tuition: Registration Fee is \$125.00 USD. Some scholarship support may be available.

JOBS/GRADUATE ASSISTANTSHIPS

Veterinarian I

Northwest Indian Fisheries Commission

Olympia, WA

Closes June 30, 2020

Assist Veterinarian II in providing veterinary prescriptive services to tribal salmonid enhancement facilities, other facilities under contract, and tribal wildlife capture programs. Serve as the Veterinarian of Record for assigned programs and establish a valid veterinary-client-patient relationship needed to prescribe drugs. Ensure all prescribed therapeutants are applied safely and efficaciously and their use is in compliance with WA state and federal laws. Work with tribes to implement preventative strategies intended to promote fish health and reduce antibiotic use.

See attached pdf for more information.

Postdoctoral Scholar - Department of Food Science & Technology

University of California Davis, College of Agricultural and Environmental Sciences

Davis, CA

Closes August 1, 2020

A postdoctoral research scholar position is available in Dr. Luxin Wang's microbial food safety lab in the Department of Food Science and Technology at the University of California Davis. The primary responsibility of this position will be to conduct studies that will increase our knowledge on the effects of antibiotic treatments on the microbiota present in aquaculture systems and the stress responses of common foodborne pathogens using next generation sequencing technologies. The responsibility of the candidate will be to perform and participate in all aspects of research projects: ordering equipment and supplies, designing sampling protocols, conducting field sampling and data collection, performing DNA extraction and library preparation, delivering data analysis using novel bioinformatics tools, writing reports, and preparing manuscripts for refereed journal publication. Projects will incorporate a range of experimental (cellular and molecular), informatics, and theoretical/computational approaches. Supervision and interaction with graduate and undergraduate students working on the project is also expected.

See attached pdf for more information.

Senior Research Scientist / Study Director - Fish Health

The Center for Aquaculture Technologies Canada

Souris, Prince Edward Island

Open until filled

The Center for Aquaculture Technologies Canada, a private aquaculture innovation and research company, is seeking a Senior Research Scientist / Study Director to assist in the daily operations of its R&D Facility in Souris, Prince Edward Island. This is a full-time, permanent, position and will begin immediately with the successful candidate reporting to the Director of Fish Health. Our research team focuses on providing high quality contract R&D support and professional services to the global aquaculture industry.

- Study Director/ Principal Investigator for in vitro and/ or in vivo clinical and research trials
- Writing of protocols and reports
- Analyses of data and production of study reports
- Designing and ensuring scientific integrity of experiments
- Care and maintenance of research animals including husbandry and animal welfare checks.
- Propagation and maintenance of pathogen isolates including use of standard cell culture and microbiological techniques.
- Development and revision of standard operating procedures.
- Timely completion of all projects with a high degree of quality and excellence.

See attached pdf for more information.

Zebrafish Related Job Announcements

<https://wiki.zfin.org/display/jobs/Zebrafish-Related+Job+Announcements>

RESOURCES/NEWS

AFS Book(s) on Aquatic Animal Health – Solicitation from Parent Society

We would like to offer your Section the opportunity to help steer the development of new books in your field. At the February 2020 mid-year Governing Board meeting in Little Rock, a report from the AFS Special Committee on Books was presented. One of the recommendations of the Special Committee was to request each AFS section to engage in an assessment of book subject needs and opportunities, including identification of possible authors/organizers. This recommendation was put forward as a proposed motion, and was passed by the Governing Board.

Please suggest possible topics to be considered as future AFS books, along with names of possible authors. Topics should be limited to the disciplines represented by your Section. Suggestions for future book subjects and authors can be submitted at: <https://fisheries.org/section-book-ideas/> (password is: books).

Deadline for submitting suggestions is September 16, 2020.

Thanks for your help!

Scott Bonar
President

Aaron Lerner
Director of Publications

Doug Austen
Executive Director

Canadian Aquaculture R&D Review 2019

The review is an ongoing compendium of the aquaculture research and development projects that have been underway over the past two years from all across Canada, whether they are undertaken by researchers from academia, government labs, or other research organisations. The review contains over 150 project descriptions detailing an impressive array of topics, disciplines, species, and geography. Projects include marine and freshwater species with topics ranging from finfish and shellfish health, seaweeds, production, husbandry technology, nutrition, and environmental interactions to name a few.

Full document attached to email as a pdf.



Northwest Indian Fisheries Commission

6730 Martin Way E., Olympia, Washington 98516-5540
Phone (360) 438-1180 www.nwifc.org FAX # 753-8659

VACANCY ANNOUNCEMENT

Position: Veterinarian I
Salary: \$61,255-\$87,306 DOQ
Location: Northwest Indian Fisheries Commission
Olympia, Washington
Closing Date: June 30, 2020

Duties and Responsibilities: Assist Veterinarian II in providing veterinary prescriptive services to tribal salmonid enhancement facilities, other facilities under contract, and tribal wildlife capture programs. Serve as the Veterinarian of Record for assigned programs and establish a valid veterinary-client-patient relationship needed to prescribe drugs. Ensure all prescribed therapeutants are applied safely and efficaciously and their use is in compliance with WA state and federal laws. Work with tribes to implement preventative strategies intended to promote fish health and reduce antibiotic use.

Qualifications: Must possess a Doctor of Veterinary Medicine obtained at a school of veterinary medicine accredited by the American Veterinary Medicine Association Council on Education. Must obtain a valid license to practice veterinary medicine in Washington State within two months of beginning work and maintain for the duration of employment. Must obtain DEA Controlled Substance Registration for Schedule 2-5, including 2N and 3N within six months of beginning work and maintain for the duration of employment. Must obtain and maintain either (1) AFS FHS certification as a Fish Health Inspector or Fish Pathologist after they have fulfilled the three years of work experience requirement or (2) the WAVMA Aquatic Animal Veterinarian Certification (CertAqV). Must possess and maintain a valid WA State Driver's License for duration of employment.

Pertinent work experience and knowledge required for this position include: epizootiology of salmonid diseases; identifying clinical signs of disease; aquatic animal medicine; federal and state drug use regulations in aquatic animals; writing veterinary feed directives and prescriptions for extra-label drug use; maintaining prescription records at a level that meets FDA and DEA requirements; culture and identification methods used for bacterial, viral, parasitic and fungal fish pathogens; Pacific salmon rearing and release strategies; water quality characteristics important to fish health in a hatchery environment; the impact of nutrition and feeds on aquatic animal health; knowledge of wildlife diseases; skill in fish and wildlife necropsy techniques; and wildlife capture techniques utilizing chemical immobilization. Must possess good interpersonal communication skills and the ability to work with individuals of varying ethnic and educational backgrounds.

Application: Send resume and cover letter by June 30, 2020 to: Wendy Bowman, HR Northwest Indian Fisheries Commission, 6730 Martin Way East Olympia, WA 98516-5540 or email to: wbowman@nwifc.org.

The Northwest Indian Fisheries Commission operates under PL 93-638 contract; **Indian Preference is an employment policy.** Must be authorized to work in the U.S. The NWIFC will not sponsor applicants for work visas.



THE CENTER FOR AQUACULTURE TECHNOLOGIES CANADA

Senior Research Scientist / Study Director - Fish Health

The Center for Aquaculture Technologies Canada, a private aquaculture innovation and research company, is seeking a **Senior Research Scientist / Study Director** to assist in the daily operations of its R&D Facility in Souris, Prince Edward Island. This is a full-time, permanent, position and will begin immediately with the successful candidate reporting to the Director of Fish Health. Our research team focuses on providing high quality contract R&D support and professional services to the global aquaculture industry.

- Study Director/ Principal Investigator for *in vitro* and/ or *in vivo* clinical and research trials
- Writing of protocols and reports
- Analyses of data and production of study reports
- Designing and ensuring scientific integrity of experiments
- Care and maintenance of research animals including husbandry and animal welfare checks.
- Propagation and maintenance of pathogen isolates including use of standard cell culture and microbiological techniques.
- Development and revision of standard operating procedures.
- Timely completion of all projects with a high degree of quality and excellence.

Desired skills/experience/competencies:

- A minimum University degree including Aquaculture; Animal Biology; Microbiology; Parasitology; Virology; Biochemistry; Immunology; Cell Biology/Physiology. Masters or PhD seen as an advantage, but not essential
- Virology and/ or bacteriology experience
- Experience working in a laboratory setting including responsibility for documenting tasks.
- Ability to work as part of a team in compliance with facility standard operating procedures.
- Research experience in a strictly controlled regulatory environment will be considered an asset.
- Willingness to learn new skills and to perform routine tasks.
- Demonstrable organizational skills with the ability to multi-task.
- Self-motivated with a demonstrated ability to think creatively and solve problems.
- Fosters a positive work environment congruent with the company values and philosophy.

CATC offers a competitive salary and benefits including group health care and retirement savings plans.

Please send CV/Resume and provide the contact information for three references to: info@aquatechcenter.com with 'Senior Research Scientist/ Study Director' as the subject line.

Applications are accepted until the position is filled; only candidates selected for interview will be contacted.

Stacy A Strickland

From: US Fish and Wildlife Service Fisheries <USFWSFisheries@public.govdelivery.com>
Sent: Monday, June 15, 2020 6:01 PM
To: stacy.a.strickland@state.or.us
Subject: June 2020 AADAP Update



U.S. Fish & Wildlife Service

Aquatic Animal Drug Approval Partnership, AADAP Update
A Branch of the Fish and Aquatic Conservation Program



The AADAP Update provides recent news and updates from the Aquatic Animal Drug Approval Partnership program and its partners. For questions or to offer feedback, email [Julie Schroeter](mailto:Julie.Schroeter). For more about the AADAP Program, please [visit our web page](#). (Photo/NPS)

June 2020

COVID-19 Update:

We hope everyone is staying safe and healthy during the COVID-19 pandemic! The entire AADAP staff is still currently teleworking, so if you need to contact us, it's best to reach out via email. Thank you!

INAD Program Tidbit of the Month:

Please be sure to review your INAD Drug Inventory in your Investigator's account to make sure it is up-to-date. If you are showing INAD on hand that is not there, please zero it out using the "Discard" button. If the INAD was transferred to another facility, this needs to be shown by clicking on the "Transfer" button. Note: INAD drugs can only be transferred to facilities that are enrolled in the INAD Program. If you receive new INAD, you will need to create a new drug receipt; don't add it to a current inventory as it will not be reported to the FDA and records will be off. If you have any questions about your INAD inventory please contact [Bonnie Johnson](#).

Approved Aquaculture Drug Fact of the Month:

Did you know Oxytetracycline Hydrochloride is approved for use in finfish fry and fingerlings for the marking of skeletal tissue? For more information on dosing, limitations, and treatment calculations, refer to AADAP's [Quick Desk Reference Guide](#) to Approved Drugs for Use in Aquaculture.

The U.S. Fish and Wildlife Service is committed to providing access for everyone. If you need alternative formats or services because of a disability or have any questions concerning a reasonable accommodation, please contact Julie Schroeter at (406) 994-9910 or julie_schroeter@fws.gov.

[Fish and Aquatic Conservation](#)
Contact us: fisheries@fws.gov



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Stacy A Strickland

From: US Fish and Wildlife Service Fisheries <USFWSFisheries@public.govdelivery.com>
Sent: Wednesday, June 10, 2020 6:01 PM
To: stacy.a.strickland@state.or.us
Subject: SAVE THE DATES!



U.S. Fish & Wildlife Service

Aquatic Animal Drug Approval Partnership, AADAP Update
A Branch of the Fish and Aquatic Conservation Program



The AADAP Update provides recent news and updates from the Aquatic Animal Drug Approval Partnership program and its partners. For questions or to offer feedback, email [Julie Schroeter](mailto:Julie.Schroeter). For more about the AADAP Program, please [visit our web page](#). (Photo/NPS)

26th Annual Aquaculture Drug Approval Coordination Workshop

26th Annual Aquaculture Drug Approval Coordination Workshop Goes VIRTUAL!

Due to the COVID-19 pandemic, AADAP is presenting the 26th Annual Aquaculture Drug Approval Coordination Workshop as an online, virtual event. Below is a tentative line-up of virtual presentations. Each session will include time for Q&A:

- FDA Center for Veterinary Medicine (CVM) Updates Session: Meg Oeller & Matthew Lucia
 - Tuesday, July 28th, 2020 at 9:00 AM-10:00 AM (Mountain Time)
- Indexing Session: Dorothy Bailey
 - Tuesday, July 28th, 2020 at 10:00 AM-11:00 AM (Mountain Time)
- Effluents Session: FDA CVM Environmental Safety Team and EPA
 - Thursday, July 30th, 2020 at 9:00 AM-10:30 AM (Mountain Time)

The presentations will be conducted using the Microsoft Teams platform. More information about this will be sent out in the coming weeks. As the agenda develops, we'll make additional announcements and post information to the [AADAP website](#). Thank you for your patience and understanding during this difficult time!

The U.S. Fish and Wildlife Service is committed to providing access for everyone. If you need alternative formats or services because of a disability or have any questions concerning a reasonable accommodation, please contact Julie Schroeter at (406) 994-9910 or julie_schroeter@fws.gov.

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Contact us: fisheries@fws.gov



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