



Fish Health Section



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

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 We still have not been able to take down the old FHS website which is outdated and inaccurate.

MEETINGS, WORKSHOPS AND COURSES

2019 FHS Meeting and Western Fish Disease Workshop

Ogden, Utah, USA

June 17-20, 2019

The 2019 joint meeting of the American Fisheries Society/Fish Health Section and the Western Fish Disease Workshop will be held at the Hampton Inn and Eccles Conference Center in Ogden, Utah. A welcoming social with light appetizers and cash bar will be held in the afternoon of Monday June 17th. A fun and casual session of interesting case studies will kick off the meeting on Monday evening. General session will start in the morning on Tuesday June 18th and will continue through the afternoon of Wednesday June 19th. A poster session will take place during the afternoon on Tuesday June 18th and the banquet will take place in the evening of Wednesday June 19th. A full day Continuing Education session designed around the intricacies and management of Flavobacteria will be held on Thursday June 20th.

Meeting Registration: The conference website/registration services are scheduled to be available by January 2019.

Call for Papers: Individuals interested in presenting a paper or poster should submit a complete abstract no later than May 1, 2019. See the flyer attached the November FHS newsletter for more information.

2019 SALMON DISEASE WORKSHOP - Pre-Announcement

July 8-19, 2019

Corvallis, Oregon

This workshop is designed for professionals working in the fish health field and will emphasize recent advances and developments in our understanding of salmonid diseases. The workshop is limited to 20 participants. Registration closes May 20.

For more information, or if you wish to receive graduate credit and to register, please contact Dr. Jerri Bartholomew at bartholj@science.oregonstate.edu

Information and links to registration will be posted on this website in the near future:
<http://microbiology.science.oregonstate.edu/salmon-disease-workshop>

JOBS/GRADUATE ASSISTANTSHIPS

Fish Health/Fish Research Technician **UTAH DNR, Fisheries Experiment Station** **Logan, Utah**

Opening date: February 4, 2019

Closing date: When filled

Salary: \$11.21 – 12.56 per hour based on experience

Time frame: Approximate dates from Feb 11 to October 31, 2019

The Utah Department of Natural Resources, Division of Wildlife Resources, has a seasonal position (no benefits) available at the Fisheries Experiment Station in Logan, Utah. This appointment will last from approximately Feb 11 to October 31, 2019. Housing is not provided.

Examples of Duties

The selected incumbent will be shared between the Utah Division of Wildlife's fisheries research and fish health programs and will provide technical assistance on field and laboratory based research and fish health inspections. Fisheries Research program duties will be variable and may include but are not limited to: electrofishing, gill netting, spawning surveys, limnology, data entry and QA/QC, otolith preparation and ageing, isotope preparation, zooplankton identification, literature reviews, triploid sampling and equipment maintenance. Fish Health responsibilities may include travel to various sites around the State to assist with fish health inspections, prepare specimens for laboratory analysis, prepare media and reagents, prepare and stain slides, perform animal dissections, work with potentially hazardous materials, clean and sterilize laboratory areas and equipment, deflesh fish heads and laboratory upkeep.

Job Requirements and Skills

Applicants must be able to work independently with minimal supervision, work well with others, work in occasional harsh weather conditions, go on overnight trips, camp on occasion, operate four wheel drive vehicles, tow trailers, operate boats, lift 50 lbs, handle and/or dispose of hazardous materials, work with laboratory chemicals, use strong cleaning agents and have a valid Utah driver's license. Preference will be given to those with a B.S. in fisheries or a related field.

Other

Applicants must be willing to work in an outdoor setting, and work weekends and holidays. Applicants must successfully pass a criminal history background check upon hire.

Applications

Interested applicants may apply by submitting a seasonal application form to:
<https://naturalresources.utah.gov/wp-content/uploads/DNR-Seasonal-Job-Application-12-13-16.pdf>

For more information see the flyer attached to this newsletter or contact Robert Shields.

Robert Shields
Fisheries Experiment Station
1465 West 200 North
Logan UT 84321
rshields@utah.gov

Assistant/Associate Professor Position in Veterinary Medical Health Outcomes University of California Davis School of Veterinary Medicine Davis, California, USA

Open date: January 18th, 2019

Next review date: February 18th, 2019. Apply by this date to ensure full consideration by the committee.

Final date: April 30th, 2019. Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Description

As part of a campus-wide initiative to hire leading research faculty with a strong commitment to teaching, research and service that will promote the success of underrepresented minority students (African-American, Latino (a)/Chicano (a)/Hispanic, and Native American) and address the needs of our increasingly diverse state, UC Davis announces an Assistant/Associate Professor faculty position in the School of Veterinary Medicine. Applications are encouraged from candidates with a strong disciplinary background in any current or emerging disciplines of artificial intelligence modeling, algorithm development of health outcomes models, biostatistics, epidemiological methodology, bioinformatics, or determinants of biology of aging, and that will fit within one of the School's departments:

- Anatomy, Physiology & Cell Biology
- Medicine & Epidemiology
- Molecular Biosciences
- Pathology, Microbiology & Immunology
- Population Health & Reproduction
- Surgical & Radiological Sciences

Please explore these departments at <https://www.vetmed.ucdavis.edu/departments>.

In addition to a strong record of research and teaching excellence, the successful candidate will demonstrate an understanding of the barriers preventing full participation of underrepresented minorities in higher education. The successful candidate also will have an accomplished track record (calibrated to career stage) of teaching, research or service activities addressing the needs of underrepresented minorities, and a clearly articulated vision of how their work at UC Davis will continue to contribute to the University's mission of serving the needs of our diverse state and student population. Applicants' track record of engagement and activity related to diversity, equal opportunity, and inclusion as well as their plans for future engagement will be a significant part of the overall evaluation of the candidate's qualifications for a faculty appointment.

Minimum Qualifications

D.V.M., Ph.D., or equivalent in health outcomes or related discipline awarded by the time of hire.

Additional Qualifications

We desire applicants who have identified strengths and experiences in the following areas:

- Excellence in research that complements or extends existing research strengths in the school and the potential to attract extramural funding.
- Evidence of commitment to or strong potential for commitment to the advancement of diversity, equity, and inclusion for underrepresented minority students and groups (African-American, Latino (a)/Chicano (a)/Hispanic, and Native American), and how this commitment integrates with teaching, research, and service.
- Commitment to excellence in teaching. Must demonstrate potential or evidence of ability to perform well at both graduate and undergraduate levels and to develop and teach undergraduate and graduate courses or seminars.

We encourage applications from candidates with strong disciplinary background in any current or emerging area that will fit within one of the following disciplines: artificial intelligence modeling, algorithm development of health outcomes models, biostatistics, epidemiological methodology, bioinformatics, or determinants of biology of aging.

Appointment will be as a fiscal year (11-month) tenure-track Assistant or Associate Professor. Applicants must have earned a D.V.M., Ph.D., or equivalent in health outcomes or related discipline awarded by the time of hire. Participation in department, school, and university service is an expectation under our faculty shared governance model.

Application Requirements

We **strongly recommend** that all candidates visit our website dedicated to this search for additional information about how their application materials, including their Statement of Contributions to Diversity, will be used by the Search Committee in our screening and review process. The link is <https://academicaffairs.sf.ucdavis.edu/advancing-faculty-diversity-pilot-project>.

For full consideration applications must be completed by February 18, 2019; the position will remain open until filled through April 30, 2019. Application packages should be submitted online through <https://recruit.ucdavis.edu/apply/JPF02607> and should include the following documents: current Curriculum Vitae, cover letter, Research Statement, Statement of Contributions to Diversity, Statement of Teaching Accomplishments and Philosophy, authorization to release information, and 3-6 letters of recommendation.

The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and activities can work and learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation, or intimidation. With this commitment, UC Davis requires all candidates for tenured ladder rank faculty searches to complete, sign, and upload the form entitled "Authorization to Release Information" into Recruit as part of their application. If the candidate does not include the signed authorization with the application materials, the application will be considered incomplete, and as with any incomplete application, will not receive further consideration.

Our Commitment

Diversity, equity, and inclusion are core values of the University of California, Davis. Our excellence in research, teaching, and service can best be fully realized by faculty who share our commitment to these values, which are included in our recently developed Diversity and Inclusion Strategic Vision, our new strategic plan: "To Boldly Go," our Principles of Community, the Office of Academic Affairs Mission Statement, and the UC Board of Regents Policy 4400: Policy on University of California Diversity Statement.

Learn More

More information about this recruitment: <https://academicaffairs.ucdavis.edu/advancing-faculty-diversity-pilot-project>

Requirements

Document requirements

- Cover Letter
- Curriculum Vitae - Your most recently updated C.V.
- Research Statement
- Statement of Teaching Accomplishments and Philosophy
- Statement of Contributions to Diversity - Diversity contributions documented in the application file will be used to evaluate applicants. Please visit <https://academicaffairs.ucdavis.edu/advancing-faculty-diversity-pilot-project> to learn more about why a contributions to diversity statement is requested and visit <https://academicaffairs.ucdavis.edu/guidelines-writing-diversity-statement> for guidelines about writing a contributions to diversity statement.
- Authorization to Release Information - A reference check will be completed only if you are selected as the final candidate. Download, complete and upload the form: <https://aadoocs.ucdavis.edu/your-resources/forms-and-checklists/forms/authorization-release-form.pdf>

Reference requirements

- 3-6 letters of reference required

For more information see the position announcement at:

<https://recruit.ucdavis.edu/JPF02607>

RESOURCES/NEWS

High-Quality Photographs needed for a new textbook: Clinical Guide to Fish Medicine

Caitlin Hadfield (Seattle Aquarium) & Leigh Clayton (National Aquarium) are close to completion, but need photos. They are looking for previously unpublished photos. If used, the photographer would get credit, but the copyright would go to Wiley publishers.

Photos needed:

- C1.3 Brown gill discoloration due to methemoglobinemia
- C3.1 carp pox skin lesions grossly
- C3.3 VHS gross necropsy on a salmonid
- C3.4 Sleepy koi with CEV
- C3.6 Viral nervous necrosis virus lesions on CNS
- C4.6 Nocardia on AF stain
- C5.2 Exophiala on cytology
- C5.5 microsporidial xenoma
- C6.2 Cryptocaryon grossly
- C6.3 Brooklynella on direct microscopy
- C6.7 *Apiosoma* sp., *Capriniana* sp.

- C6.8 Cryptobia on direct or histology
- C6.9 Ichthyobodo on direct, ideally gill
- C6.10 Hexamita/Spironucleus on direct
- C7.7 Dermophthirius on direct
- C7.12 Cestodes on direct of fish fecal
- C7.14 Anisakid larvae on direct
- C7.15 Camallanid nematodes on direct
- C8.2 Enteromyxum spores
- C8.3 Henneguya spores
- C8.4 Myxobolus spores and cartilage damage on histology
- C8.5 Ceratonova spores
- C8.6a Polycystic kidneys on gross of a goldfish
- C8.6b Hoferellus spores on direct or histology
- C8.8 Tetracapsuloides spores

If you have images to contribute, please contact Dr. Linda Rhodes so she can you so the authors: linda.rhodes@noaa.gov, office/lab: 206-860-3279.

2019 AFS International Fisheries Section Fellow Award

Attention Students and Young Professionals:

The International Fisheries Section (IFS) of the American Fisheries Society (AFS) is excited to announce the 2019 International Fisheries Section Fellow Award. The Fellow will represent IFS/AFS by presenting a poster or oral presentation at the 2019 Fisheries Society of the British Isles (FSBI) Annual Symposium, July 15-19, at the University of Hull, United Kingdom. The theme of the 2019 FSBI Annual Symposium is “Advances in eDNA-based Approaches to Fish Ecology and Management.”



<https://www.fsbi.org.uk/annual-symposia/symposium-2019/>

Application

Applications for the 2018 Fellows Program are due March 15, 2019.

To apply, please submit the following information as a single PDF document to the Committee Chair for the IFS Fellow Program, Jane Sullivan (jane.sullivan1@alaska.gov), and the Deputy Committee Chair, Mary Fisher (mfisher5@uw.edu) by 11:59 pm (PST) on March 15, 2019:

- Letter of interest (please include information about your involvement in AFS and how you will benefit from attending the FSBI Annual Symposium)
- Proposed FSBI presentation title and abstract

- Concise resume (3-page maximum)
- Proposed travel budget (i.e. airfare, ground transportation, etc.); please specify availability of supporting funds you may have from other sources if budget exceeds allowance.

The award recipient will be notified by April 6, 2019.

The 2019 FSBI Symposium

The Award

The IFS and ES provides the travel funding (airfare and ground travel) for the chosen Fellow to attend the FSBI annual meeting in the UK. The FSBI provides the costs of registration, hotel, and per diem for the IFS Fellow during the FSBI meeting.

Similarly, the FSBI selects a student or young professional member to attend and present at the AFS annual meeting. The FSBI covers the travel funding (airfare and ground travel) for the FSBI Fellow to the AFS meeting. The program provides the registration, hotel, and per diem costs for that FSBI Fellow during the AFS meeting.

Local hosting of each exchange scholar is carried out by the hosting society, ensuring that attendees have the greatest exposure to the membership and meeting as possible.

Obligations:

The awarded Fellow is expected to fulfill the following obligations:

- Attend the 2019 FSBI Annual Symposium and present an oral or poster presentation.
- Submit to the Committee Chair a travel report and photographs for print publication by August 12, 2019.
- Submit travel receipts to the Committee Chair and IFS Treasurer by August 12, 2019 for expense reimbursement.
- Serve as the Deputy Committee Chair of the IFS Fellow Award in 2020 and the Committee Chair in 2021.

Eligibility:

- This award is open to all AFS Student members or AFS members who are within 3 years of graduation. Current membership with the American Fisheries Society is mandatory to apply for and receive this award.

Award Criteria:

- Priority will be given to applicants who are working on topics of international interest or those associated with the FSBI Conference Theme. However, all interested and eligible members are encouraged to apply.
- While attending the AFS Annual Meeting is not a requirement, priority will be given to candidates who have existing funding to attend the 2019 AFS Annual Meeting in Reno, NV September 29-October 3, 2019. If the selected Fellow can attend the AFS Annual Meeting, he or she is expected to participate in the IFS committee meeting and act as a site host at the Reno AFS meeting for the FSBI Fellow.

AFS Webinars - February Updates

Connecting the Dots: Diversity, Inclusion, and Collaborative Networks in Fisheries

Wednesday, February 20, 2019

1:00 - 2:00 pm Eastern Time

Register now!

Just like the fishes that we study, the resilience and adaptability of the fisheries profession is dependent on a robust and diverse conglomerate of fisheries professionals. During this session, we will discuss how the American Fisheries Society (AFS) has a unique opportunity to be an active agent of change for the fisheries community by diversifying its membership and preparing future leaders in the fisheries workforce worldwide. Benefits of increasing the diversity of members in fisheries and AFS depends on each of us helping to expand our demographic profile, to include more talent from underrepresented groups in our research, networks, and communities.

Presenters:

Brooke Penaluna, Research Fish Biologist, Pacific Northwest Research Station, Corvallis Forestry Sciences Lab, US Forest Service

Ivan Arismendi, Assistant Professor, Oregon State University

Waters of the US (WOTUS): What You Need to Know About the Rule and How to Take Action

Wednesday, February 27, 2019

1:00 - 2:00 pm Eastern Time

Register now!

Efforts by the Trump administration are underway to roll back Clean Water Act protections for our nation's streams and wetlands. The newly proposed rule revises the definition of Waters of the United States (WOTUS) and aims to exclude many wetlands and headwater streams that are critical to fish, fisheries, and ecosystem services.

Join us for an informative and timely discussion about the proposed WOTUS rule, the science that contradicts it, and how to submit an effective regulatory comment.

Presenters:

Gillian Davies will discuss the differences between existing regulations (the 2015 Clean Water Rule and pre-2015 regulations and guidance) and the proposed WOTUS rule revision. Her presentation will outline the major proposed changes to federal regulation of waters, including the scope of the proposed rule, proposed expansion of exclusions from regulation, changes in how "adjacency" is defined, and the proposed relationship between federal and state regulations. Her presentation will also give a snapshot of the jurisdictions where the 2015 Clean Water Rule is in effect.

Dr. Mažeika Sullivan will explain how the proposed rule fails to align with the original intent of the Clean Water Act to "to restore and maintain the chemical, physical, *and* biological integrity of the Nation's waters" and will explain the many ways the rule is inconsistent with current science. He will highlight how the EPA and the U.S. Army Corps of Engineers are improperly interpreting the theoretical model developed by the EPA Science Advisory Board to illustrate how gradients in connectivity might be used to evaluate downstream impacts of changes to streams and wetlands to eliminate protections for these waters.

Dr. Susan Colvin will discuss a compelling new paper, *Headwater Streams and Wetlands are Critical for Sustaining Fish, Fisheries and Ecosystems*. The paper details how the loss of Clean Water Act protections for headwaters would result in a loss of ecosystem services, increase the threat to imperiled species, affect commercial and recreational fisheries, and impact fishes of cultural value to Native Americans and the recreating public.

Drue Banta Winters, AFS Policy Director will walk participants through the process of submitting an effective regulatory comment and how to broadly communicate the need to protect waters with a physical, chemical, and biological connection to navigable waters through a variety of channels.

Aquatic Animal Drug Approval Partnership (AADAP) Update: February 2019

We're Back!

With the U.S. Government's recent shutdown ending, we're happy to say we're back to work! A big thank you to AADAP staffer Bonnie Johnson who held down the fort and continued to maintain the INAD program for all participants.

Where's AADAP?

The AADAP team will be attending Aquaculture America 2019 in New Orleans, LA, March 7-11. Don't forget that Monday morning of the conference we will be presenting during the special session, Aquaculture Drug Needs Surveys and Research Updates!

Help Wanted!

We'd like to thank everyone who responded to our call for *Aeromonas hydrophila* outbreaks study sites. AADAP is still looking for coolwater fish culture facilities with this pathogen in which to perform pivotal studies that will support expansion of the approved Terramycin® 200 For Fish label. If you think you may be able to help, please contact [Guppy Blair](#).

Save the Date!

Looking for an excuse to visit Bozeman, MT, in 2019? Then start making travel plans to attend the 25th Annual U.S. Fish and Wildlife Service, Aquaculture Drug Approval Coordination Workshop, July 30th- August 1st. Registration will open soon! In addition, if you have an idea for a potential presentation for the workshop, please contact [Guppy Blair](#).

An official call for abstracts will be sent out later this spring.