



# Fish Health Section



The official link to the FHS website is: <http://www.afs-fhs.org/>

## FHS NEWS

**57<sup>th</sup> Western Fish Disease Workshop, AFS Fish Health Section Meeting, and 22<sup>nd</sup> USFWS Aquaculture Drug Approval Coordination Workshop**  
**Jackson Hole, WY**  
**June 7-10, 2016**

Registration and Call for Abstracts is now open!! The deadline for early registration is 3/31/2016. For full information, please open the PDF entitled, "Western Fish Disease Workshop 2016 Registration".

Additionally, please see the flyer for the CE course (Landscape Ecology and Modeling in Fish Health) and the tentative agenda. Both are attached as PDF files (CE courseFlyer3.19.16 and CE course Tentative Agenda 3.19.16).

## AFS-FHS Call For Nominations

The Nominating and Balloting Committee is seeking nominees for the following positions: Vice-President; Technical Standards Committee; Professional Standards Committee; and Nominating and Balloting Committee.

The Vice-President serves a 4-year term with 1 year obligations as President-Elect, VP, President, and Past President. All committee positions are 3-year terms and the newly elected member will serve as chair of the committee during their 3<sup>rd</sup> year on the committee. Additional information on the roles of the committees can be found on the FHS website, <http://www.afs-fhs.org/bylaws.php>.

Nominees must be Fish Health Section members in good standing. Additionally, nominees for the Professional Standards Committee must be a Certified Fish Health Inspector, a Certified Fish Pathologist, or a Doctor of Veterinary Medicine.

The nomination period is open from March 31<sup>st</sup> to April 8<sup>th</sup>. Please send all nominations to Amy Long, [amy.long@dfo-mpo.gc.ca](mailto:amy.long@dfo-mpo.gc.ca).

## NEW! Fish Health Laboratory QA/QC Program

The Standing Committee for Quality Assurance has unveiled plans for a multi-tiered program for quality assurance and quality control in aquatic animal laboratories. Details of the initial phase of the program, designated as "Tier 1 - Prequalification", have been finalized and the application can be accessed via ([Application](#)). A second phase, "Tier 2

- Recognition" is under development and should be completed by the end of the year. The first two phases will be administered by the FHS, under the guidance of the Standing Committee. Possible future plans might include a third Tier, with actual accreditation under an agency with legal authority.

The Tier 1 phase requires applicants to provide establishment and documentation of quality assurance principals, based largely on Chapter 3 of the FHS-AFS Bluebook, including standard operating procedures for laboratory procedures and equipment, designation of key quality assurance personnel, as well as laboratory safety procedures.

This program is designed for the many small-medium sized laboratories which don't have the resources to become accredited with more expensive/onerous programs, while still raising the quality and credibility of laboratory diagnostic/inspection services throughout North America. The program can be accomplished over time as resources become available, and is totally voluntary.

An application fee for the Tier 1 phase of \$500 has been established and applications for 2016 are due no later than March 31. A working subgroup of the Committee will review the applications and notify applicants at the FHS Meeting at Jackson, Wyoming in June 2016.

For additional information, contact Dr. Chris Wilson at [wetvet53@gmail.com](mailto:wetvet53@gmail.com).

### **Call for Proposals to Host ISAAH-8**

The American Fisheries Society's Fish Health Section is soliciting proposals to host the 8th International Symposium on Aquatic Animal Health (ISAAH-8), September 2 - 7, 2018. Please open the PDF entitled, "CALL FOR PROPOSALS TO HOST ISAAH-8 FINAL" for more information.

### **Meetings, Workshops, and Courses**

#### **Health and Colony Management of Laboratory Fish MBI Biological Laboratory, Salisbury Cove, Maine August 16-21, 2016**

[Health and Colony Management of Laboratory Fish](#) is a short course for veterinarians, principal investigators, technicians, trainees or core managers who utilize or plan to utilize fish models in laboratory research. The 2016 short course will be held in August at the MDI Biological Laboratory in Salisbury Cove, Maine. For more information, click the link above and open the PDF entitled, "Health Colony Mgt 2016".

## **JOBS/GRADUATE ASSISTANTSHIPS**

### **Supervisory Biologist/Fishery Biologist (Center Director) USGS Leetown Science Center Leetown, WV**

The USGS is recruiting to fill the **Center Director** at the Leetown Science Center (located in Leetown, West Virginia) ([www.lsc.usgs.gov](http://www.lsc.usgs.gov)).

The Center is a world leader in fisheries and natural resources research including but not limited to: **Fish and Wildlife Research** (species biology, species stressors, genomics); **Aquatic Ecosystems** (priority landscapes, aquatic ecology, climate change, aquatic restoration, fish passage); **Invasive Species and Fish Health and Disease** (invasive species risk assessments, control, genetics and genomics; fish disease and ecology).

The Center currently has over 70 + scientists and support staff and an annual budget of over \$12 million dollars. The Center is part of the Ecosystems Mission Area within the USGS. ([www.usgs.gov/ecosystems/fisheries/index.html](http://www.usgs.gov/ecosystems/fisheries/index.html))

The position is open until 4/29/2016 to current/former federal employees (Job Announcement Number RES-2016-0197) and all United States Citizens (Job Announcement Number RES-2016-0192) (see link to USA jobs below).

Supervisory Biologist/Fishery Biologist (Center Director) GS-0401/0482-14/15

RES-2016-0192 (DEU)

<https://www.usajobs.gov/GetJob/PrintPreview/434302100>

RES-2016-0197 (MP)

<https://www.usajobs.gov/GetJob/PrintPreview/434303100>

### **Research Immunologist/Molecular Biologist Postdoctoral Research Opportunity USDA-ARS, National Center for Cool and Cold Water Aquaculture (NCCCWA) Leetown, WV**

#### **Description**

A postdoctoral position (Molecular Biologist/Research Immunologist) is available at the National Center for Cool and Cold Water Aquaculture (NCCCWA) in Leetown, WV located about 70 miles from Washington D.C. The selected applicant will investigate mechanisms of disease resistance in selectively-bred rainbow trout lines. Available tools include extensive RNA-seq, proteomic, 50K SNP datasets as well as an improved reference rainbow trout genome assembly and pathogen genome sequences. Options

for follow-up studies include functional analysis of candidate genes/pathways as well as studying on-farm performance. The selected applicant will be a team member on the project "Integrated Research to Improve On-Farm Animal Health in Salmonid Aquaculture". The successful candidate will select and develop appropriate strategies, methodologies and experimental procedures.

The appointment is full-time for one year and may be renewed upon performance. The annual stipend rate for this position is \$64,650. This position requires a pre-employment check and a full background investigation. This opportunity is available to U.S. citizens. This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, genetic information, sexual orientation, or covered veteran's status. For more information about the position please contact Dr. Greg Wiens at [greg.wiens@ars.usda.gov](mailto:greg.wiens@ars.usda.gov) or visit website: <http://www.ars.usda.gov/pandp/people/people.htm?personid=34263>. To apply, please send your CV and contact information of three references.

### **Qualifications**

Eligible applicants must have received a Ph.D. with expertise in either Immunology, Microbiology, Genetics, Molecular Biology, Animal Sciences, or Life Sciences, within five years of the desired starting date. Relocation assistance and benefits are available.

Knowledge and experience in functional immunology, flow cytometry, analyzing large RNA-Seq/proteomic data-sets, pathway analyses and/or in quantitative and statistical genetics are desirable as well as professional knowledge of Fish Biology, Fish Genetics, Molecular Biology, Genomics, and/or Aquaculture Research. Strong computer and analytical skills are valuable. Applicants must meet all requirements for the position including completion of the Ph.D. prior to the start date.

### **Natural Resource Specialist 3 (Fish Health Specialist)**

#### **Oregon Department of Fish and Wildlife Madras, OR**

The Oregon Department of Fish and Wildlife is currently seeking applicants for a Fish Health Specialist position. The Fish Health Specialist will prevent and control fish diseases and fish losses and promote the health of Oregon's fish resources specifically in the Deschutes River watershed. S/he will serve as a professional medical diagnostician-practitioner, will deal with both upstream and downstream fish health passage issues related to reintroduction of anadromous salmonids and lamprey above the Pelton Round Butte Hydroelectric project. Examinations of fish being passed above the project as well as downstream migrants will be of primary importance to document pathogen presence on these fish and examine the potential impact on native fishes above the project. Corrective measures may be recommended when treatable

pathogens are detected in returning adult fish. Recommendations regarding fish health concerns in the passage of fish or eggs, fish transfers and disease control are provided to co-managers and Fish and Wildlife Department administrators. Monthly examinations of fish at Oak Springs Hatchery, Wizard Falls Hatchery, Fall River Hatchery and Opal Springs STEP site will be conducted.

For more information, please see the full job announcement at the following link:

<https://www.governmentjobs.com/careers/oregon/jobs/1368228/natural-resource-specialist-3-fish-health-specialist>

### **Prince Edward Island Site Veterinarian/Local Animal Welfare Officer**

**ELANCO**

**PEI, Canada**

Elanco at Prince Edward Island is seeking applicants for a Site Veterinarian/Local Animal Welfare Officer. For more detailed information, please open the Word document entitled, "PEI Site Vet & AWO".

## **RESOURCES**

### **New 2016 Quality Assurance Aquatic Bacteriology Module**

The Veterinary Laboratory Association Quality Assurance Program (VLAQAP) administered out of the Atlantic Veterinary College in Prince Edward Island Canada, provides proficiency testing to over 300 veterinary diagnostic labs worldwide. Currently this proficiency program includes a Fish and Shellfish Histopathology Testing Modules which can be provided quarterly to client labs which do fish histopathology. The VLAQAP program is expanding into Aquatic Proficiency Testing and will offer in early 2016 an Aquatic Bacteriology Module twice per year. This proficiency program will provide to client laboratories a lyophilized aquatic bacterial isolate which can be used as an external Quality Control measure for participating labs. In addition, clients will be able to anonymously check their performance against other participating labs. More information on this program can be obtained by either emailing to [qap-avc@groupwise.upei.ca](mailto:qap-avc@groupwise.upei.ca) or visiting the VLAQAP website <http://vlaqap.org/>

Please see the attached advertisement, PDF entitled, "VLAQAP New Fish Bacti".

## Journal of Aquatic Animal Health

### New Issue Contents

Volume 28, Issue 1, 2016

**Case Report: Strawberry Disease in Farmed Chilean Rainbow Trout (p. 1-10)**

*Carlos Sandoval, Jorge Infante, Jessica Abad, Hugh W. Ferguson, Enrique Paredes, Samuel Valdebenito, Alejandro J. Yáñez, Pedro Ilardi, Ruben Avendaño-Herrera*

**Immunological Profile of the Yellow Clam *Mesodesma mactroides***

**(Mesodesmatidae) from the Southern Coast of Rio Grande do Sul, Brazil (p. 11-20)**

*Juan Jethro Silva Santos, Yuri Bovi Carvalho, Diogo Luiz de Alcantara Lopes, Luis Alberto Romano*

**Distribution of Infectious Pancreatic Necrosis Virus (IPNV) Based on Surveillance Programs in Freshwater Trout Farms of Mexico (p. 21-26)**

*César Ortega, Benjamín Valladares, Donald Arguedas, Fernando Vega, Roberto Montes de Oca, Alexander G Murray*

**Development of Similar Broth Microdilution Methods to Determine the Antimicrobial Susceptibility of *Flavobacterium columnare* and *F. psychrophilum* (p. 27-38)**

*Charles M. Giesecker, Tina C. Crosby, Tamara D. Mayer, Sonya M. Bodeis, Cynthia B. Stine*

**The cDNA Sequence of Two Hemocyanin Subunits from Red Swamp Crayfish *Procambarus clarkii* and their Responses to White Spot Syndrome Virus Infection (p. 39-45)**

*Yong Zeng*

**Initial Detection and Molecular Characterization of Namaycush Herpesvirus (Salmonid Herpesvirus 5) in Lake Trout (p. 46-55)**

*Gavin W. Glenney, Patricia A. Barbash, John A. Coll*

**A Quantitative Polymerase Chain Reaction Assay for the Detection and Quantification of Epizootic Epitheliotropic Disease Virus (EEDV; Salmonid Herpesvirus 3) (p. 56-57)**

*Gavin W. Glenney, Patricia A. Barbash, John A. Coll*

**Journal of Aquatic Animal Health: Guide for Authors (p. 68-73)**