



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 We still have not been able to take down the old FHS website which is outdated and inaccurate.

Call for Nominations - Come one, come all! The Nominating and Balloting Committee is seeking nominees for the following positions: Vice-President; Technical Standards Committee; Professional Standards Committee; Policy/Position Development Committee; and Nominating and Balloting Committee.

The Vice-President serves a 4-year term with 1-year obligations as VP, President-Elect, 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 3rd year on the committee. Additional information on the roles of the committees can be found on the FHS website, <https://units.fisheries.org/fhs/about/by-laws/>.

The link to the procedure manual in addition to the by-laws:

<https://virtualllearn.wengine.com/fhs/wp-content/uploads/sites/30/2017/08/procedures-manual-2014.pdf>

Considering nominating someone, but you're on the fence? Go for it! Those that volunteer their time by serving on a FHS committee gain valuable experience contributing to the greater fish health community, meet new people and broaden their horizons, and strengthen old skills while learning new ones. Don't just take it from me:

"Serving on the Nominating and Balloting Committee has allowed me to communicate with and meet fellow fish health professionals across the country - something I never would have done on my own."

"The Bluebook has become an important reference for fish health professionals. With new fish diseases being described and advanced diagnostic techniques constantly emerging in fish health, it has been a pleasure being part of the Technical Standards Committee and having input on Bluebook updates. Now having an electronic format, which is easier to update, it is our responsibility to ensure that this resource keeps pace with the most current fish health science."

"Serving on the Professional Standards Committee was a great experience, as it really facilitated my familiarity with the rigors that are associated with AFS-FHS applications and certifications."

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 until April 5th. Please send all nominations to Hossam Abdelhamed, abdelhamed@cvm.msstate.edu.

See the flyer attached to the email for this newsletter.

MEETINGS, WORKSHOPS AND COURSES

2019 FHS Meeting and Western Fish Disease Workshop June 17-20, 2019 Ogden, Utah, USA

The 2019 joint AFS Fish Health Section Annual Meeting and the 60th Western Fish Disease Workshop will be held at the Hampton Inn and Eccles Conference Center located in Ogden, Utah. A welcoming social with light appetizers and cash bar will be held on the evening of Monday June 17th. This gathering will also kick off the meeting with a fun and casual session of interesting case studies. The first day's general session will begin on Tuesday morning and will end with an afternoon poster session. Following this event, participants will be given the opportunity to explore restaurants, brew pubs, hiking trails and fishing opportunities in and around the Ogden area. The general session will continue through Wednesday afternoon and will end that evening with the meeting banquet. A full day of Continuing Education designed around the complexity of flavobacteria and the importance of integrated fish health management will be held on Thursday June 20th.

Meeting Registration:

General Registration, until May 20th	\$285
Late Registration, after May 20th	\$320
Continuing Education Session	\$70
Additional Banquet Ticket	\$45
Additional Shirt (one is included in general registration cost)	\$20

Register online using TicketBud.

<https://ticketbud.com/events/7c11cd78-44de-11e9-a513-42010a717005>

Alternatively, you may fill out a registration form (see flyer) and send it with a check, made out to AFS Fish Health Section, to Cathryn Smith, 1465 West 200 North, Logan UT 84321.

Continuing Education: A full day of Continuing Education will be held on Thursday June 20th. This session has been designed to provide a broad overview of flavobacteria and the overall benefits associated with implementing an integrated fish health

management program for many fish pathogens. The program will begin with an overview of the genus *Flavobacterium* and will narrow its focus to cold water (*Flavobacterium psychrophilum*) and cool/warm water (*Flavobacterium columnare*) fish pathogens. The morning's session will end with a summary of the development and use of resistant fish strains to manage flavobacterial diseases. The afternoon session will then transition into case examples of integrated fish health management programs across the United States. The day will end with a discussion of bridging the gap between fish health professionals, hatchery employees, administrative personnel, research teams and other partners to build a better collaborative fish health program. Pending final CE committee approval, this session will provide 6 RACE CE credits.

Call for Papers: Individuals interested in presenting an oral presentation or poster can submit a complete abstract using the guidelines and submission form provided below. If you are interested in presenting a case study during the first evening's social, please submit a simple title using the abstract/title submission form below. ***The deadline for submitting abstracts and/or case titles is May 20, 2019.***

Lodging: A block of rooms is being held at the Hampton Inn and Suites and includes an early bird special of \$94/room for the first 25 rooms reserved. All additional rooms are available for \$154/night. ***The hotel room deadline is May 31, 2019.***

Student Travel Awards: The AFS-FHS is pleased to announce that the Snieszko Student Travel Awards will be available to help students with the cost of attending the 2019 AFS Fish Health Section Annual Meeting and 60th Annual Western Fish Disease Workshop. We anticipate 5 separate awards of up to \$1000 to allow students (undergraduates, graduates, or veterinary) post-docs or residents to give an oral or poster presentation at the conference. For more details, including application requirements, please refer to <https://units.fisheries.org/fhs/about/awards/>. Please direct all inquiries and submissions to the Chair of the FHS Awards Committee at fhsstine@gmail.com. ***Application deadline April 29, 2019***

For additional information please contact: Wade Cavender (435-720-2784) or Cristi Swan (435-760-4300), and see the flyer attached to the email for this newsletter.

2019 SALMON DISEASE WORKSHOP

**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 on a first come, first serve basis.

Topics:

- Current immunological and molecular techniques

- Sampling for pathogens in wild populations
- New and emerging fish pathogens
- Cell culture techniques, including maintenance of cultures and viral identification
- Histopathology associated with salmonid diseases
- Current status of important viral, bacterial, and parasitic pathogens
- Salmonid disease treatment practices in Pacific Northwest hatcheries
- Epidemiology

Information and links to registration are posted on this website:

<http://microbiology.science.oregonstate.edu/salmon-disease-workshop>

For more information see the attached flyer or contact Dr. Jerri Bartholomew at

bartholj@science.oregonstate.edu

Health and Colony Management of Laboratory Fish

August 11-16, 2019

MDI Biological Laboratory

Bar Harbor, Maine

This is a short course for veterinarians, technicians, trainees, principal investigators, and core managers who utilize or plan to utilize fish models in laboratory research. The course is directed by Michael Kent, Ph.D., College of Veterinary Medicine, Oregon State University. Course faculty include: Rodman G. Getchell, Ph.D., Cornell College of Veterinary Medicine; Christian Lawrence, M.S., Children's Hospital Boston; and Jan Spitsbergen, DVM, Ph.D., DACVP, Department of Microbiology, Oregon State University.

The course is offered at the MDI Biological Laboratory, located in Bar Harbor, Maine on Mount Desert Island, the home of Acadia National Park. It is intended to help laboratory technicians, researchers, and veterinarians monitor and maintain the health of a colony of aquatic organisms, focusing on zebrafish. This course is appropriate for veterinarians and veterinary trainees, as well as technical staff, students, postdocs, and investigators.

The course consists of lectures, laboratory exercises with a high faculty to student ratio, and discussion. During the course, there are ample opportunities for students to discuss unusual and/or unsolved diagnostic case experiences from their home laboratories as problem-solving exercises.

This course is now approved by the AAVSB RACE (American Association of Veterinary State Boards Registry of Approved Continuing Education) to offer a total of *33 CE* (Continuing Education) Credits to veterinarians and veterinary technicians. RACE approval is for the subject matter categories of both category 1 (Scientific) and 3 (Non-Scientific-Practice Management/Professional Development).

For more information see the course webpage: <https://mdibl.org/course/health-and-colony-management-of-laboratory-fish-2019/>, or the flyer attached to the email for this newsletter.

Or visit the MDI Biological Laboratory course page [<https://mdibl.org/education/courses/>](https://mdibl.org/education/courses/) or email the Education Office at education@mdibl.org.

JOBS/GRADUATE ASSISTANTSHIPS

Director, Extension Fish Health Specialist (Extension Specialist III)

University of Arkansas at Pine Bluff
UAPB Fish Disease Diagnostic Laboratory
Lonoke, Arkansas

Appointment: Permanent, full-time

Salary/Fringe Benefits: Commensurate with qualifications and experience. Group health, life, and disability insurance; retirement; social security; workers' compensation, paid holidays; vacation and sick leave; tuition discounts for employee, spouse and children.

Qualifications: A minimum of a Ph.D. degree in fish biology, fish health, fish pathology, aquaculture, or a closely related field, or a veterinarian with fish health experience is required. Fish health diagnostic experience, experience in commercial fish production, and Extension are strongly preferred. Applicant must possess or pursue AFS-FHS certification as an Aquatic Animal Health Inspector within six (6) months of hire. Experience with the Animal and Plant Health Inspection Service (APHIS) certification process according to OIE (World Organization for Animal Health), AFS-FHS (American Fisheries Society Fish Health Section) Bluebook, the Northeast Fish Health Committee Guidelines, and current Canadian regulations is highly desired.

Nature of Position: The UAPB Lonoke Fish Disease Diagnostic Laboratory, located in the heart of the commercial baitfish industry, is one of the eleven facilities approved by APHIS nationally. The lab specializes in the diseases of baitfish, ornamental fishes, and water quality. The Fish Health Certification Laboratory is approved to inspect fish for export and is one of the most active labs in the APHIS Farm Certification Program. The Director, Extension Fish Health Specialist will oversee this lab, and also provide vital field support for the Arkansas aquaculture industry. Job responsibilities include developing and implementing a dynamic Extension program related to solving fish health problems on commercial aquaculture farms, maintaining a high-level of fish health and water quality diagnostics services for commercial fish farms, and training county Extension agents.

Personal Characteristics: The successful candidate will possess:

- ability to articulate a clear, collegial vision for the Diagnostic Lab's Extension activities
- ability to generate support from both internal and external constituents in implementing the vision and mission
- appreciation for the value of fundamental and applied research
- strong personnel and budget management skills
- demonstrated commitment to creating an inclusive community as a personal and professional value
- ability to develop effective working relationships with county Extension agents; other Extension specialists, fish farmers, researchers, staff, students, and the general public
- willingness to learn and apply Extension methodologies to develop an effective and high-impact Extension program

The individual selected must be committed to solving problems on commercial fish farms and to provide a high level of diagnostics and inspection services.

Application Procedure: Applicants should submit a letter of application, vita, a copy of transcripts from all higher learning institutions (official transcripts required for employment), and contact information of three professional references to:

Search Committee for Director, Extension Fish Health Specialist c/o: Human Resources Department
University of Arkansas at Pine Bluff 1200 N. University Drive
Mail Slot #4942
Pine Bluff, Arkansas 71601 Application packages may be sent by e-mail to:
uapbjobs@uapb.edu

Application deadline: April 15, 2019, or until a suitable applicant is found.

See the flyer attached to the email for this newsletter.

Aquatic Epidemiologist, Professor Tenure-Track

University of Minnesota
College of Veterinary Medicine
Veterinary Population Medicine Department

The University of Minnesota, Veterinary Population Medicine Department (VPM), College of Veterinary Medicine (CVM), is seeking to hire a 100% Assistant/Associate/Full Professor (tenure-track) position as part of the University of Minnesota Global Food Ventures (GFV) initiative. The GFV is a public-private partnership committed to answering the global imperative of safe, nutritious and affordable food, through the application of innovative discovery and next generation workforce development. Minnesota commodities and citizens expect 21st century

interdisciplinary teams of scientists, engineers, veterinarians and public health communicators to protect the safety and to preserve quality nutrition of foodstuffs. These positions will contribute to the GFV research program related to Food Safety Innovations and will leverage existing and proposed GFV investments in informatics. This CVM position will focus **on Aquatic Epidemiology**.

Collectively, this position as well as the other MN-Drive positions will directly leverage internationally recognized programs at the CVM and School of Public Health (SPH) and bolster research opportunities related to the Center for Animal Health and Food Safety (CAHFS), the Food Protection and Defense Institute (FPDI), and the Center for Infectious Disease Research and Policy (CIDRAP). See the attached flyer for a specific description of the proposed faculty position in Aquatic Epidemiology.

RESPONSIBILITIES: The person in this position would have a research, teaching, and outreach focus. He/she is expected to interact with faculty from College of Food, Agricultural and Natural Resource Sciences (Horticulture, Animal Science, Fisheries and Wildlife, Minnesota Aquatic Invasive Species Research Center), School of Public Health, other departments in College of Veterinary Medicine, Minnesota Veterinary Diagnostic Laboratory, and the Center for Animal Health and Food Safety. It is expected that this position will develop nationally recognized, independent sustained research programs in sustainable aquaculture and ecosystem health that complement our existing infectious disease and food safety programs, and can provide expert advice to industry related to aquatic animal health. This position will also have major teaching responsibilities in the DVM curriculum including teaching in epidemiology, advanced epidemiology and veterinary public health rotations. They will also teach in undergraduate and graduate (PhD, MPH, and MS) courses.

REQUIRED QUALIFICATIONS: Candidates must have a doctoral level degree (e.g., DVM, MD or PhD) and publication record demonstrating experience in epidemiology and infectious diseases. The candidate is expected to have advanced knowledge of the biology of agents, hosts, vectors, and reservoir systems of aquatic animal population health and/or advanced knowledge of food safety related to seafood. The ability to develop an independent and sustainable scholarly research program, teach in the classroom and mentor graduate students, and participate in outreach and service is required. Successful applicants will also contribute collaboratively to multidisciplinary efforts as part of their scholarly work. Demonstrated experience in preparing research grants, publishing in quality peer-reviewed journals, and presentations at national, professional meetings is necessary. Candidates at the associate professor or professor level are expected to demonstrate sustained success in funded scholarly activities and candidates at the full professor level will be expected to also have a substantial, currently funded research portfolio.

PREFERRED QUALIFICATIONS: While a doctoral level degree and commensurate track record of peer reviewed research output is required, a DVM degree plus graduate (MS, PhD) level research degree is preferred since this combination is likely to support the development of both aquatic animal health and epidemiological research tracks

within the College. Thus, candidates with a record of funded programmatic research, teaching and outreach in aquatic animal health and epidemiology will be given preference. In addition, candidates with applied data science skills (Big Data) related to population fish production and public health are encouraged to apply.

SALARY AND START-UP PACKAGE: Highly competitive and commensurate with experience and qualifications. The University offers an excellent benefits package. For example, the University pays 100% of the premium for Faculty Basic Life Insurance as well as 100% of the premium for Faculty Group Income Disability Insurance. Faculty contributes 5.5% of their annual salary and the University contributes 10% toward the Faculty Retirement Plan. There are also two Optional Retirement Plans available. For more benefits information see <https://humanresources.umn.edu/benefits>.

START DATE: Negotiable, after July 2019.

APPLICATIONS: Applications will be accepted and reviewed upon receipt until the position is filled. Qualified applicants should apply online <https://z.umn.edu/aquaticepidemiologist> Job ID: 328738. Required documents include a curriculum vitae, a statement of research, outreach and teaching interests, a letter of intent outlining professional record and academic career goals, and names and contact information of three professional references. Inquiries about the application process and the position should be directed to the chair of the search committee, Dr. Sagar Goyal (goyal001@umn.edu; 612-625-2714).

For more information see the flyer attached to the email for this newsletter.

RESOURCES/NEWS

John E. Skinner Memorial Fund Award

The John E. Skinner Memorial Fund was established in memory of John Skinner, former California-Nevada Chapter and Western Division AFS President. The fund provides monetary travel awards for deserving graduate students or exceptional undergraduate students to attend the AFS annual meeting. **The 2019 meeting will be held in Reno, Nevada September 29 to October 3.**

Any student who is active in fisheries or related aquatic disciplines, and has not previously won a full Skinner award, is eligible to apply. Awardees are chosen by a committee of the AFS Education Section. Selection is based on academic qualifications, professional service, and reasons for attending the meeting. **Travel support up to US\$800 will be made available to successful applicants.** Award winners also receive a one-year paid membership to AFS.

For more information and to begin the application process go to:

<https://fisheries.org/about/awards-recognition/call-for-award-nominations-section-awards/john-e-skinner-memorial-fund-award/>

You can also contact:

Julianne Harris

U.S. Fish and Wildlife Service
Columbia River Fish and Wildlife Conservation Office
1211 SE Cardinal Court, Suite 100
Vancouver, WA 98683
Phone: 360-604-2551
julianne_harris@fws.gov (preferred)

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

Aquaculture 2019 Follow-up: The AADAP team attended the Aquaculture 2019 conference from March 7-11, in New Orleans, Louisiana. We hosted a special session entitled Aquaculture Drug Needs Surveys & Research Updates and met with several of our partners from across the U.S. It was a productive and informative meeting, and we're glad to have had the opportunity to attend!

Newest Hire: AADAP is excited to announce one of our permanent positions has been filled. Julie Schroeter began her permanent appointment with AADAP's Research Program on March 3rd. Julie has been working with the AADAP program since June 2018 in a four year term position. A second permanent hire for the Research Program is also in the works, and will be announced in the upcoming weeks.

Approved Aquaculture Drug Fact of the Month: Did you know Chorulon® by Merck Animal Health (Chorionic Gonadotropin) is approved for the improvement of spawning function in male and female brood finfish? For more information on dosing and limitations, please see AADAP's [Quick Desk Reference Guide to Approved Drugs for Use in Aquaculture](#).

Save the Date! Looking for an excuse to visit Bozeman, MT in 2019? Then it may be time to start making travel plans to attend the 25th Annual U.S. Fish and Wildlife Service, Aquaculture Drug Approval Coordination Workshop on July 30th-August 1st, 2019. A block of rooms has been reserved at the Best Western GranTree Inn, at the rate of \$157 per night. There is a limited number of rooms which will be released on June 29th, so make your reservations early, and be sure to mention one of the codes below to ensure you pay the special rate. Hotel information can be found below. Registration will open soon. In addition, please [email Guppy Blair](#) if you are interested in presenting at the workshop. An official call for abstracts and registration details will be sent out later this spring.