



Fish Health Section



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

FHS NEWS

The AFS Journals Department Is Seeking High-Quality Photographs to Feature on the Cover of the *Journal of Aquatic Animal Health*

The cover photograph need not correspond to the issue contents, so any high-quality, interesting photo or image is welcome!

Suggested subjects include histopathology, radiography, gill parasites, etc.

We would also be interested in hearing from you if you know of photographers we should contact, a particular lab with a great photo database, or subject matter we should be keeping our eyes open for.

The photographer will retain copyright of the image. \$100 payment for professional photographers.

Please e-mail your possible cover photos or tips to Journals Manager Laura Hendee at journals@fisheries.org. Also see the attached flyer.

STUDENTS AND EARLY CAREER MEMBERS

PhD Opportunity – Zebrafish Health

**State University of New York College of Environmental Science and Forestry
Syracuse, NY**

The zebrafish disease lab at the State University of New York College of Environmental Science and Forestry (ESF) (<http://www.esf.edu/>) is seeking PhD applicants to investigate controlling mycobacteriosis in zebrafish, in a position supported by a grant from the National Institutes of Health. The Whipps lab (<http://whippslab.weebly.com/>) studies the impacts and control of diseases in zebrafish, an important laboratory animal model. This position is ideal for candidate with experience in fish diseases, or candidates from other fields looking to use fish as models for disease.

Applicants should be self-motivated, able to work independently or in groups, and have a strong scientific curiosity. The successful applicant will; 1) Evaluate antibiotic treatment of fish, 2) test differences in infection susceptibility between zebrafish lines,

and 3) develop (or help develop) diagnostic methods. The student will also develop their own question(s) to investigate. Previous experience with care of zebrafish, or other fish species, is ideal as the successful applicant will care for their own experimental fish, as well as contribute to routine care of all zebrafish.

Required Qualifications: B.Sc. in Biology, Microbiology, or related areas. Experience with PCR, microbiology, fish husbandry or related areas. Strong organization and communication skills. Evidence of productive scientific communication (e.g., conference presentations, peer reviewed papers).

Preferred Qualifications: A prior advanced degree (MS or DVM).

Term of Position: We are seeking an applicant to begin August 2018 and have support for 3 years (additional years may be supported through any combination of additional grant funding, graduate teaching assistantships, and other departmental support). Possibility of Summer start as technician.

Application Deadline: Although applications will be accepted until the position is filled, candidates should submit their application by **April 20, 2018** to assure optimal consideration. Send the following to Dr. Chris Whipps, cwhipps@esf.edu : CV, statement of research goals, copy of transcripts, copy of GRE scores. The email should contain the subject line "Zebrafish Health PhD". The successful applicant will subsequently need to apply to the graduate program at SUNY-ESF.

MEETINGS, WORKSHOPS AND COURSES

24th Annual Aquaculture Drug Approval Coordination Workshop and the 59th Western Fish Disease Workshop

Bozeman, Montana

June 19-22, 2018



**Registration
&
Call for
Papers**

The 24th Annual USFWS Aquaculture Drug Approval Coordination Workshop and the 59th Annual Western Fish Disease Workshop will be held together and jointly hosted the week of June 18th at the Best Western Gran Tree Inn in Bozeman, Montana.

Bozeman, Montana has grown to be one of the leading destinations for a western Rocky Mountain vacation, featuring attractions like museums, mountain ranges and wilderness areas, collegiate athletics, unique & historic district, and Yellowstone National Park.

Workshop and CE Session: The two day **Western Fish Disease Workshop** will cover all aspects of the health of wild and cultured fish and shellfish and will be preceded by a one day **Aquatic Animal Drug Approval Coordination Workshop** session on Tuesday, June 19th. Following the conclusion of the Western Fish Disease Workshop a continuing education session on **Bacterial Kidney Disease Management** will occur. Details for both the workshops and CE session are available at the meeting website at https://www.fws.gov/fisheries/AADAP/aquaculture_workshop.html.

Now is the time to register for the meeting, sign up to give a paper or poster, and reserve your lodging. Be forewarned that June is a popular tourist time in Bozeman so we encourage you to book your lodging early.

Call for Papers: Oral and poster presentations are being solicited on all aspects of health of wild and cultured fish and shellfish including diseases, pathogens, vaccine development, test methods, health management, intriguing case histories, and submissions for the special session. Individuals interested in presenting a paper or poster at the workshop are requested to submit the following: (a) the title of their presentation, (b) whether it will be presented orally or as a poster, and (c) any equipment needs. **Titles should be submitted no later than May 1, 2018.** The planning committee will use this information to begin developing an agenda for the meeting. Formal abstracts will be required for each oral presentation and poster. **The deadline for receipt of abstracts is May 15, 2018.** Our web site has guidelines for formatting your abstract. If you have questions pertaining to oral or poster presentations for the AADAP workshop, please contact Molly Bowman (molly_bowman@fws.gov). If you have questions (pertaining to oral or poster presentations for the WFDW workshop please contact Ken Staigmiller (kstaigmiller@mt.gov).

Please see the attached flyer for more information.

Health and Colony Management of Laboratory Fish short course
Salisbury Cove, Maine
August 12-17, 2018

The MDI Biological Laboratory is pleased to present the short course Health and Colony Management of Laboratory Fish in our state-of-the-art training laboratory, the Maine Center for Biomedical Innovation.

This one-week short course is intended to help colony managers, researchers, and veterinarians monitor and maintain the health of a colony of aquatic organisms. The course consists of lectures, laboratory exercises with a high faculty to student ratio, and

discussions. 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 approved by the AAVSB RACE (American Association of Veterinary State Boards Registry of Approved Continuing Education) to offer a total of 35 CE (Continuing Education) Credits to veterinarians and veterinary technicians.

More information can be found in the attached course listing and online at the course webpage: <https://mdibl.org/course/health-and-colony-management-of-laboratory-fish-2018/>

8th International Symposium on Aquatic Animal Health
Charlottetown, Prince Edward Island, Canada
September 2-6, 2018



Organizers of the **8th International Symposium on Aquatic Animal Health** have opened conference registration and placed a call seeking abstract submissions for oral and poster presentations. Prominent fish health researchers have been recruited for topic specific forums and scientific sessions are filling up fast. Potential presenters are encouraged to submit abstracts promptly to ensure a place in the program. Moreover, the deadline for Student Travel Awards is fast approaching. Please encourage your students to apply to take advantage of this unique opportunity to participate in one of the preeminent International Aquatic Animal Health Symposiums.

The 2018 symposium marks the thirtieth anniversary of the ISA AH, which will be held September 2 – 6, 2018 in Prince Edward Island, Canada. The ISA AH meets every four years and typically attracts 300–400 fish health professionals from around the world. This will be only the second time the Conference has been hosted in Canada; the inaugural conference took place in Vancouver in 1988.

Delegates attending ISA AH 2018 will have the opportunity to join other aquatic health professionals from around the world for scientific workshops, business meetings, keynote and research presentations. The theme of this year's symposium is "Integrating Biotechnology in the Advancement of Aquatic Animal Health".

Early Bird registration rates are available now and there are limited spaces for registered delegates to attend the pre-conference scientific workshops. As such,

participants are encouraged to sign up as soon as possible. Registration and conference information can be found here: <https://isaah2018.com/>

Important deadlines:

Abstract Submission Deadline: May 31, 2018

Early Bird Registration Deadline: July 13, 2018

Accommodations Booking Deadline: August 3, 2018

Workshop Registration Deadline: August 3, 2018

Oral PowerPoint Submission Deadline: 1 Day Prior to Session

On behalf of Dave, Esteban and the rest of the organizing committee, we look forward to seeing you in PEI in September!

Matt

Program Committee Chair, Matt Griffin: griffin@cvm.msstate.edu

Local Organizing Chair, Dave Groman: groman@upei.ca

Fish Health Section President, Esteban Soto Martinez: sotomartinez@ucdavis.edu

QASH (Quantitative Atlantic Salmon Health) Special Session - Call for Abstracts

The QASH initiative is a cooperative effort between salmon scientists in Norway, Scotland, Chile, and Canada. QASH aims at developing a globally applicable “**Quantitative Atlantic Salmon Health**” tool as a management and certification tool based on objective measures of health and robustness.

The QASH team is seeking abstracts for a workshop being hosted on Wednesday, September 5th at ISA AH 2018, addressing industrially applicable and empirically validated candidate indicators of health and robustness in farmed Atlantic salmon across the globe. This QASH session aims to clarify which benchmarks we have, which bottlenecks are closest to being resolved and which assessment "packages" are most promising to monitor and ensure longterm health in farmed salmon. The outcome of the workshop will result in a proposal for a larger multinational project examining and applying the results in the major salmon producing countries.

For the purposes of the workshop, Quantitative Atlantic Salmon Health includes such topics as: Verifiable allostasis or homeostasis; measures of recovery from health challenges; robustness of barrier tissues; impacts of feed and “functionality”; thresholds and meaning of qPCR results; breeding programs and heritable health; behavioural ranges and indicators of behavioural constraints; other tools to monitor health which have threshold values (weight, growth, appetite, coloration); environmental interactions; requirements for industrial application on farm, pre- processing or in certification schemes.

Some factors to consider include: threshold values, time to generate results, options to respond to a poor result, sampling protocol requirements, reproducibility of results, level of biological organization tested, cost of testing, ease of testing, industrial constraints, and economic impact.

Priority will be given to abstracts which outline, apply and evaluate candidate indicators or benchmark values.

Deadline for submission of Abstracts is May 31, 2018. For more information, visit ISAAH 2018 or [email info@isaah2018.com](mailto:email_info@isaah2018.com)

**Gill Health Symposium for Marine Fish
Zhongshan Park, Singapore**

November 21-23, 2018

We are proud to announce the first international **Gill Health Symposium for Marine Fish** hosted by the Universities of Sydney, Auckland and Bergen. This 3-day symposium will focus on the function and form of fish gills in the face of a changing ocean environment with emphasis on ocean warming and acidification. The symposium will bring together scientists with expertise in a variety of disciplines such as marine biology, ecology, ecophysiology, environmental chemistry, aquaculture and fisheries.

The target audience for the symposium are scientists from university, government and private sectors and managers from aquaculture and fisheries industries.

Applications will be reviewed from **1 May 2018**. Priority will be given to early and mid career researchers (<10 years from PhD award) and those residing in developing countries. Maximum capacity is 30 people.

The **goal** of the symposium is to create small teams of discipline experts to co-author topic reviews to be submitted as part of a special research topic in ***Frontiers of Marine Science***.

Applications open 1 April 2018. To apply, go to: <http://sydney.edu.au/science/life-environment/research/gill-health-symposium.shtml>

Applications should include:

- short cv (4 pages max.)
- letter of support from your Department Head, Director or relevant supervisor
- statement addressing (1 page max.) current research program and career interests
- statement addressing (1 page max.) your willingness to contribute and support the goals of the Gill Health Symposium

For more information, please see the attached flyer and/or email: Associate Professor Joy Becker, joy.becker@sydney.edu.au

JOBS/GRADUATE ASSISTANTSHIPS

Postdoctoral position - Flavobacterium genetics **Department of Biological Sciences** **University of Wisconsin-Milwaukee**

Dr. Mark J McBride is currently seeking for a postdoctoral scientist interested in conducting genetic experiments on *Flavobacterium* species at the University of Wisconsin-Milwaukee. Depending on the interests of the individual, projects could include genetic analyses of virulence of *Flavobacterium columnare* and/or *Flavobacterium psychrophilum*, or studies of *Flavobacterium johnsoniae* gliding motility and protein secretion. A combination of these is also possible depending on the individual.

Salary will depend on experience and accomplishments. Apply by contacting Dr. McBride by email. Please send your CV and names of 3 references.

Mark J McBride
Distinguished Professor
Department of Biological Sciences
University of Wisconsin-Milwaukee
Rm 181 Lapham Hall
[3209 N. Maryland Ave.](#)
[Milwaukee, WI 53211](#)
Phone: 414-229-5844
Fax: 414-229-3926
email: mcbride@uwm.edu

Associate/Assistant Professor (Aquatic Animal Health) Position **Department of Infectious Diseases and Public Health** **College of Veterinary Medicine and Life Sciences** **City University of Hong Kong**

The new College of Veterinary Medicine and Life Sciences at City University of Hong Kong in collaboration with Cornell University's College of Veterinary Medicine is assembling an outstanding group of international academics to undertake teaching and research within the Department of Infectious Diseases and Public Health. The Department is rapidly developing as an international research-oriented centre to support veterinary training and research in Hong Kong and the region. It is well positioned to provide a strong link between the preclinical veterinary sciences and applied (clinical) veterinary medicine. In another dimension it focuses on One Health, an area spanning

the health of animals, humans and the environment. The Department plays a key role in teaching students in the Bachelor of Veterinary Medicine programme and also in the MSc in Aquatic Production and Veterinary Health, amongst other related activities, such as enabling postgraduate research opportunities. Departmental staff members undertake teaching, research and diagnostic service across their areas of speciality.

Duties

The innovative Bachelor of Veterinary Medicine curriculum at City U. includes a number of courses on Aquatic Animal Medicine and Aquaculture. The appointee is expected to contribute to the further development and implementation of the professional veterinary curriculum (Bachelor and Master's levels) in the area of aquatic animal health, foster excellence in veterinary education and research, teach and manage undergraduate and postgraduate courses, develop new research directions and maintain robust research programmes, carry out administrative work and other duties to facilitate the development of the Department and the College as a whole.

Requirements

A PhD in the field of aquatic animal health, preferably with expertise in veterinary immunology or nutrition, and working experience with warm water species/in the Asian region. A degree in veterinary medicine registerable in Hong Kong is an important asset. Candidates should have demonstrable evidence of research success (including the ability to obtain research funding), strong interpersonal skills to work collaboratively as a member of an academic team, and be able to deliver courses in English. Knowledge of Mandarin and/or Cantonese would be an advantage.

Salary and Conditions of Service

Remuneration package will be driven by market competitiveness and individual performance. Excellent fringe benefits include gratuity, leave, medical and dental schemes, and relocation assistance (where applicable). Initial appointment will be made on a fixed-term contract.

Further information on this position and the University is available at <http://www.cityu.edu.hk/hro/en/job/current/academic.asp?ref=uac-e269> and <http://www.cityu.edu.hk>, or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Hong Kong [Email : hrojob@cityu.edu.hk; Fax : (852) 2788 1154 or (852) 3442 0311]. Also see the listing attached to this FHS Update email.

RESOURCES/NEWS

Aquatic Animal Drug Approval Partnership (AADAP) program Update: April 2018

Dave Erdahl Retires - Dave Erdahl, Branch Chief of the Aquatic Animal Drug Approval Partnership (AADAP) program for 24 years, retired on March 30, 2018. Although Dave's

consistent steady hand in guiding the AADAP program will definitely be missed, he has certainly earned and is ready for “greener pastures” in retirement. In Dave’s own words “I have lived a dream-life working with the U.S. Fish and Wildlife Service (USFWS) and have ZERO regrets....and I know that I will look back on it all with only the fondest of memories. I have always taken my work/career pretty seriously, but I have always considered the friendships that I have made and the personal interactions related to those friendships by FAR AND AWAY the most important aspect of my time with USFWS.” His future plans consist of “simply enjoying the many outdoor wonders that Montana holds....fish, hunt, hike, camp, fish, fish, hunt, hunt, etc.....and of course, the company of family and friends.” We wish Dave the best in retirement and in all of his future plans!

Guppy Blair Joins AADAP - Dave Erdahl has handed the reins of the AADAP program over to Marilyn “Guppy” Blair as she has now joined AADAP as Acting Branch Chief for the program. Guppy comes to AADAP as a veterinarian with 21 years of experience in fish health from the USFWS Idaho Fish Health Center. She is excited to work with everyone on the AADAP team and all the many folks involved-- including those using INADs, working on drug approvals, and drug sponsors, etc. Guppy feels that filling Dave’s shoes (or hat!) will be a big challenge but, is looking forward to contributing to such an important program.