



Fish Health Section



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

FHS NEWS

FHS-FHS Fame and Fortune!

Do you want to make your lab or institution better known both nationally and internationally? Are you looking for your 15 minutes of fame and a shot at the bright lights? Are you a loyal AFS member anxious to serve the FHS? THIS IS YOUR BIG CHANCE! The venue for the 2012 AFS-FHS meeting has yet to be decided. If you or your institution is interested in serving as the 2012 host and local organizer for the annual meeting, please contact Andy Goodwin at agoodwin@uaex.edu or call 1-870-575-8137. The date is somewhat flexible, but we need to be cautious about conflicts with other meetings and fish spawning. The upcoming meeting in 2011 is in the west, so central or eastern locations for 2012 might be desirable. The philosophical debate about the choice of sites (easy to get to vs. fun and natural splendor) rages on, but past experience seems to indicate that the latter is what gets folks to the meeting. It is wide open for now. The "American" in AFS means "North America (Canada, the US, and Mexico). This is your big chance to have the whole AFS-FHS over to your place!

Thanks,

Andy

Andrew E Goodwin MS. PhD.
Fish Pathologist/Inspector (AFS-FHS)
Professor/Associate Director
UAPB Aquaculture/Fisheries Center
1200 N University Dr
Pine Bluff, AR 71601

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JOINT ANNUAL FHS MEETING AND 52ND WESTERN FISH DISEASE WORKSHOP – see attached poster WFDW 2011.pdf

June 14-16, 2011

Nanaimo B.C.

<http://www.fisheries.org/units/fhs/afs2011.php>

Updated information on the meeting and a registration form are now posted on the website.

Schedule of Events:

An evening social will be held on Tuesday, June 14th. The Continuing Education session will take place on Tuesday, June 14th from 9:00am to 4:00pm. General session will be held from Wednesday, June 15th until June 16th. Depending on the number of submissions, the meeting may take all of June 16. A banquet will be held on the evening of June 15th. There will be an Executive Committee meeting during one lunch break to discuss FHS business and future meetings.

Registration Costs (either Cdn or US dollars):

Registration (FHS members)	\$200
(Non-FHS members)	\$225
Student FHS Members	\$175
Continuing Education Session	\$75 (includes lunch)

Registration includes social, breaks and banquet fees. Extra banquet Tickets can be purchased for \$40 Cdn. Lunch will be provided on **Wednesday, June 15th**

Continuing Education Session:

This year's continuing education session will focus on the **Practical Tools for Managing Bacterial Kidney Disease**. This one day workshop will aim to address, in lecture format, state-of-knowledge presentations on BKD diagnosis and tools for its management including husbandry, therapeutic treatment, vaccination and brood stock selection. The workshop will include a roundtable discussion by all participants on current knowledge and look to identify areas requiring additional research. The workshop will be facilitated by Dr. Laura Brown from the Pacific Biological Station.

Topics will include:

- Historical Context
- Diagnostic Tools
- Husbandry
- Therapeutic Options
- Immunology and Vaccine Development
- Breeding Programs
- Resistance
- Roundtable discussion

Recreational Activities:

Vancouver Island is a prime holiday destination for enjoying fishing, hiking, scenic outings and generally a fun time. Hence it is a great venue for conferences and meetings. Please visit <http://www.hellobc.com/en-CA/RegionsCities/VancouverIsland.htm> to get a preview.

**Important Dates: April 29, 2011
June 01, 2011**

**Deadline for abstract submission
Deadline for registration**

Contact Information:

If you have any questions at this time please contact either:

Mark Higgins
Aquatic Animal Health Section
Pacific Biological Station
3190 Hammond Bay Road
Nanaimo, BC V9R 5K6

or Dr. Eva Jakob
Aquatic Animal Health Section
Pacific Biological Station
3190 Hammond Bay Road
Nanaimo, BC V9R 5K6

Email: Mark.higgins@dfo-mpo.gc.ca
Phone (250)756-7072

Eva.Jakob@dfo-mpo.gc.ca
Phone:(250) 756-7035

ABSTRACTS DUE APRIL 29, 2011

Please prepare abstracts in Microsoft Word format and email as an attachment to Dr. Simon Jones (Simon.Jones@dfo-mpo.gc.ca) by April 29, 2011. Power Point will be the format for all oral presentations.

Guidelines for Abstract Preparation

1. Abstract must fit on single side page with margins set at 1.5" on all sides.
2. Use Times New Roman 12 pitch font
3. Center the title and use all capitals. Genus and species names should be in italics.
4. Provide a double space between the title and authors.
5. For each author provide first name, middle initial and last name. Use bold script for author presenting the paper. Follow each name with a numeric superscript to denote affiliations.
6. Provide a single space between authors and affiliations. Affiliations should include mailing address plus postal/zip code.
7. Provide double space between affiliations and body of the abstract.
8. Provide a double space between the body of the abstract and an indication of whether you prefer oral presentation or poster.
9. If you are a student presenter and wish to be considered for the Best Student Paper Award, write student after Oral Presentation.

**MEETINGS AND WORKSHOPS - FOR INFORMATION ON THESE AND OTHER
UPCOMING MEETINGS GO TO THE WEBSITE:**

<http://www.fisheries.org/units/fhs/meeting.php>

2011 SALMON DISEASE WORKSHOP – REGISTRATION OPEN

http://microbiology.science.oregonstate.edu/salmon_disease_workshop

July 11-22

Oregon State University, Corvallis, OR

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 served basis.

- 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

Cost of the workshop is \$950. To register:

<https://conferences.bus.oregonstate.edu/Registration/Index/2011-salmon-disease-workshop>

For more information or if you wish to receive graduate credit contact:

Dr. Jerri Bartholomew at 541-737-1856 or e-mail at:

bartholj@science.oregonstate.edu

The Gem - off campus studios or apartments w/kitchen, private bath, linens, internet access:

<http://www.housingnorthwest.org/studenthousing/osu/index.asp>

37th Annual Eastern Fish Health Workshop

22 – 27 April 2012

High Peaks Resort

Lake Placid, NY

Back by popular demand, the beautiful High Peaks resort, on the shores of spectacular Mirror Lake in Lake Placid (NY), will serve as the site of the 37th Annual Eastern Fish Health Workshop. Lake Placid was the site of our 34th Workshop, which was overwhelmingly acclaimed as “our best venue ever!” This internationally famous and picturesque Adirondack Mountain village has hosted the site of the Olympic Winter Games in 1932 and 1980. The completely redefined hotel is located on the sparkling shores of beautiful Mirror Lake, directly in the heart of Main Street’s shopping, dining, and entertainment district. Plan now to be with us and enjoy the spectacular lake and mountain views and incredible access to all the splendor of Lake Placid and the Adirondack region.

Now on Facebook

The EFHW is now on Facebook. As a member of the Facebook community, you can access announcements, posts by delegates, forums and updates at:

<http://www.facebook.com/profile.php?id=100001300530070#!/pages/Eastern-Fish-Health-Workshop/164449723610923>

or simply search for the Eastern Fish Health Workshop on Facebook.

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POSITIONS

GRADUATE STUDENT FELLOWSHIPS

Location: LSU School of Veterinary Medicine

Duties: To conduct studies on the pathogenesis of intracellular bacterial pathogens of fish. Possible areas of study will involve using a variety of cellular and molecular techniques involved in the characterization of the interaction of intracellular bacteria and host cells, including the role of Type III, Type IV, and Type V secretion systems. Modern research laboratories are enhanced by centralized core facilities for nucleic acid synthesis and sequencing, hybridoma production, flow cytometry, quantitative PCR and microarray analyses, confocal microscopy, laser capture microdissection, and fluorescence and electron microscopy.

For questions and application information, please contact:

Dr. Ronald L. Thune
Department of Pathobiological Sciences
School of Veterinary Medicine
Louisiana State University
Baton Rouge, LA 70803
Telephone: 225-578-9680
Fax: 225-578-9701
Email: thune@vetmed.lsu.edu

POSTDOCTORAL RESEARCHER

Location: LSU School of Veterinary Medicine

Duties: To conduct studies on the pathogenesis of intracellular bacterial pathogens. Duties will involve conducting a variety of cellular and molecular techniques involved in the characterization of the interaction of intracellular bacteria and host cells, including the role of Type III, Type IV, and Type V secretory systems. Modern research laboratories are enhanced by centralized core facilities for nucleic acid synthesis and sequencing, hybridoma production, flow cytometry, quantitative PCR and microarray analyses, confocal microscopy, laser capture microdissection, and fluorescence and electron microscopy.

Qualification Requirements: Ph.D. degree in microbiology, immunology, cell biology or a closely related life science.

Date Available: Upon completion of interview process.

Application Deadline: June 1, 2011 or until suitable candidate is found.

Application Procedure: Please send cover letter, resume, and three letters of reference to:

Dr. Ronald L. Thune
Department of Pathobiological Sciences
School of Veterinary Medicine
Louisiana State University
Baton Rouge, LA 70803
Telephone: 225-578-9680
Fax: 225-578-9701
Email: thune@vetmed.lsu.edu

RESOURCES AND NEWS

INVASIVE SPECIES NUTSHELL – see attached Nutshell 31

Lots of updates on invasives, including an update on the National Aquatic Animal Health Plan (p16) and an amazing smuggling story (p 19)

REQUEST FOR COMMENT: 2 OIE chapters – see attached GS79_AAHC files

Hello All:

On behalf of the Deputy Administrator, Veterinary Services, the official U.S. delegate to the World Organization for Animal Health (OIE), we are requesting your help in reviewing the attached draft revisions of two (2) Chapters in the Aquatic Animal Health Standards Commission February 2011 Report. We are soliciting comments from experts in the scientific and academic fields, and from industry and government. The feedback we obtain is important to help shape workable, but safe animal health standards that will promote the harmonization of

trade regulations for animals and animal products. We are sending the documents to you for your review and distribution to whomever you feel should see and review them.

The Chapters for comment are:

- 1) Killing of farmed fish for disease control purposes
- 2) Manual Criteria for listing species as susceptible to infection with a specific pathogen

When submitting comments back to our office, please note the following due date and procedures:

- Due date of August 5, 2011 for comment submission on all of the attached documents to: Paul.G.Egrie@aphis.usda.gov

- Note: for the Chapter Killing of farmed fish for disease control purposes, this chapter had been previously sent out for review. Due to the large number of comments submitted and accepted by the Code Commission it is being offered for an additional opportunity for review and comment. The changes to this chapter since it was last distributed are highlighted in Yellow. The OIE shows the proposed changes as text that is double-underlined (new text) or text that has a strike-through (deleted text). Please identify the article or specific text in the chapter you are commenting on, propose new language (if any), and provide a scientific rationale for your proposed language

-Note: for the Chapter Manual Criteria for listing species as susceptible to infection with a specific pathogen, this is a new chapter and you are welcome and encouraged to comment on any part of this text.

-Please identify the article or specific text in the chapter you are commenting on, propose new language (if any) and provide a scientific rationale for your proposed language.

Note: Please do not use the automatic "track-change" function provided by word processing software as such changes are lost in the OIE's process of collating submitted comments into the Code Commissions working documents.

--Again, if you have comments on the any of the attached documents, please utilize the following procedures in their preparation:

- a) identify the specific Article and text which you are commenting on;
- b) indicate the changes you believe should be made
- c) provide suggested language that should replace the changes you are making (if any)
- d) provide a scientific justification or rationale for such changes

You may also access these chapters for comment on the following Veterinary Services OIE web page:

http://www.aphis.usda.gov/import_export/animals/oie/aquatic.shtml

As always please feel free to contact me if you do have any questions, and also feel free to share these documents with others whom you believe would provide construction input.

Thank you,
Gary

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P. Gary Egrie, VMD

USDA APHIS Veterinary Services  
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(240) 460-5986 (Cell)

**VHS FISH DISEASE CAUSED GIZZARD SHAD FISH KILL IN MILWAUKEE HARBOR SHIP CANALS**

News Release Published: April 1, 2011 by the Central Office

Contact(s): Al Kaas (608) 267-7865; Randy Schumacher (262) 894-3006; Sue Marcquenski (608) 266-2871

MILWAUKEE - A mid-March fish kill of thousands of gizzard shad in the Milwaukee Harbor ship canals was caused by the fish virus viral hemorrhagic septicemia, or VHS, according to results released March 31 from the Wisconsin Veterinary Diagnostic Laboratory in Madison.

The finding represents the first time VHS has been detected in Wisconsin's waters of Lake Michigan since 2008, and the first time gizzard shad have tested positive for VHS in Wisconsin, according to Sue Marcquenski, Department of Natural Resources fish health specialist.

"The results show that the virus is persisting in the environment, and as some have predicted, new isolations of the disease will likely be from younger year-classes of fish that haven't built up immunity to the virus," she said.

VHS, which can infect several dozen different native fish species and cause them to bleed to death, does not affect humans. The first detection of the virus was in



freshwater drum from the Lake Winnebago system in 2007, and also in Wisconsin's waters of Lake Michigan that same year. The virus was first confirmed in Lake Superior in 2010 from samples of lake herring.

The Milwaukee Harbor canals fish kill started the week of March 14 and by March 18, involved several thousand fish. Dead and dying gizzard shad were collected and necropsied on March 22 and submitted to the Madison laboratory for testing, Marcquenski said.

DNR will be testing fish from 27 waters this spring as part of its surveillance program for VHS and also to assure that the disease is not present in those rivers that DNR relies on for water supplies for its hatcheries.

Infected fish shed the virus in their urine and reproductive fluids and the virus can survive in water for at least 14 days. Fish also can be infected when they eat an infected fish.

"The important message here is VHS is still out there and we have to be vigilant about cleaning our boats and not moving fish around," says Al Kaas, DNR fish hatchery operations chief. These steps also will prevent the spread of other fish diseases and invasive species like zebra mussels and spiny water fleas.

Under statewide VHS rules:

- Minnow harvesting of any kind is not allowed on any VHS affected waters: Lake Michigan, Lake Superior, the Mississippi River, Lake Winnebago, Fox River from Lake Winnebago to Green Bay, and all connecting waters upstream to the first barrier impassible to fish.
- Anglers and boaters must drain all water from the fishing and boating equipment when leaving the lake or entering the state (except drinking water and a small amount of water to move minnows as described below).
- Anglers statewide may not move live fish or fish eggs away from any water except minnows they bought from a registered Wisconsin bait dealer and used under certain conditions. Such leftover minnows can be used again on the same water, or can be used elsewhere if the angler did not add lake or river water or other fish to their bait container.

For more information on the fish disease and how to prevent its spread visit DNR's web page: <http://dnr.wi.gov/fish/vhs/>

Back to Top

Last Revised: April 1, 2011

## **NIFA: INVESTING IN SCIENCE | SECURING OUR FUTURE**

April 7, 2010

The Food and Drug Administration (FDA) Center for Veterinary Medicine (CVM) is seeking grant applications from State, County, Local, and tribal governments, public and private institutions of higher education, nonprofit organizations and others to develop, or support the development of, new animal drugs for intended minor use in major species or intended use in minor species [MUMS]. FDA anticipates having a total of \$750,000 in available grant funds with an award ceiling of \$100,000. The aquaculture community in the past has been successful in obtaining funds to support new animal drugs for aquatic species.

Regards,

Gary Jensen

Applications Due: May 14, 2010

The March 25, 2011 FDA Grant Funding Opportunity Announcement is posted at:

<http://www07.grants.gov/search/search.do?&mode=VIEW&opId=53836>

\* The Full Funding Opportunity Announcement is posted at:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-10-001.html>

Additional information about Minor Use and Minor Species (MUMS) Animal Drug Development is available at

<http://www.fda.gov/cvm/minortoc.ht>