



Fish Health Section



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

FHS NEWS

BRIEF UPDATE FROM THE PRESIDENT

A couple of weeks ago I represented the FHS at the Governing Board meeting at Annual AFS meeting in St. Paul Minnesota. The AFS meeting is a great opportunity to interact with AFS members that are in other fields such as genetics, aquaculture, physiology and fisheries biology. Three years ago Trish Barbash worked to increase FHS involvement in the AFS annual meeting and in 2011 Diane Elliot organized a Fish health symposium at in the AFS national meeting in Seattle and this year Jim Bowker, and Jesse Trushenski of the Fish Culture Section and Andy Goodwin and Diane Elliot of FHS organized a joint FHS and FCS symposium "Understanding the Ecological and Social Constraints to Achieving Sustainable Fisheries Resource Policy" with much of the focus on managing VHS in the Great Lakes region. The symposium was well attended by a diverse group of AFS members. This is a great tradition that I would like to see continue at the next AFS meeting in Little Rock, Arkansas Sept. 8-12, 2013. Another meeting that I encourage FHS members to attend is the Western Division AFS meeting in May 2014 in Mazatlan, Mexico. The Division is encouraging US and Latin American involvement to support the Mexico Chapter of the AFS in hosting this meeting.

Also, the AFS Journal Best Paper Awards were presented at the AFS Meeting. Congratulations to the authors of the 2011 JAAH best paper- Purcell, M. K., R. G. Getchell, C. A. McClure and K. A. Garver. Quantitative Polymerase Chain Reaction (PCR) for Detection of Aquatic Animal Pathogens in a Diagnostic Laboratory Setting. 23(3): 148-161.

Finally, I attached the 2011 FHS report to the Governing Board. This is basically a summary of reports from the FHS committees.

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Fish Health Section Report

TO: **Bill Fisher**, President
FROM: Larry A. Hanson, Fish Health Section
DATE: 8/8/12

I. Motion Report – None

II. Activity Report

(A) Summary of Outcomes and Accomplishments

Goal 1: Global Fisheries Leadership

Objective 1.1, Strategy 1:

The 53rd American Fisheries Society- Fish Health Section Meeting was held on July 31- August 3 at LaCrosse, WI. The meeting included national and international leaders in fish health. This meeting was held in conjunction with Great Lakes Fish Health Committee Meeting, The Veterinary Workshop on Fish Regulatory Medicine Aquaculture Biosecurity/AIS-HACCP Workshop, and the 18th Annual USFWS Aquaculture Drug Approval Coordination Workshop.

The meeting was organized by Susan Marcquenski and Becky Lasee

The next 54th American Fisheries Society- Fish Health Section Meeting is scheduled for June 18-20 on Port Townsend, WA. It will be held in conjunction with the Western Fish disease Meeting.

The meeting is being organized by John Hershberger.

Plans are being made for the International Symposium of Aquatic animal Health (ISAAH) in late summer of 2014. AFS-FHS is the founding organization for ISAAH and is one of several fish health organizations that sponsor this meeting. ISAAH has been held every four years since 1988 and is usually held in North America. This meeting is an important forum for international scientific exchange with many scientistS from attending from overseas.

John Hershberger, Vicki Blazer, Ron Thune, John Hawke

Strategy 6:

The FHS continues to promote the Journal of Aquatic Animal Health through member paper contributions, editing and subscriptions. This has been a forum for traditional scientific papers as well as group authored papers and reviews dealing with specific problems identified by FHS committees.

JAAH editor Jeffrey Wolf

The AFS Bluebook is a critical reference for Diagnostic Labs and is used by State and Federal regulators. This publication is in two parts. The Blue Book consists of disease information and disease diagnosis procedures. It is available for purchase and is updated every 2 years by experts in the field. In 2012 three new chapters were added, "Photobacteriosis", "Onchorynchus masou virus" and "Other viruses that isolated from fish". Twelve chapters were revised. Revision of the Blue Book is directed by the Technical standards Committee. The second part is the Inspection Manual which recommends procedures for inspecting fish

lots and facilities. This manual is available on line and is a reference guide for many state and federal agencies content is directed by the Inspection Handbook Committee consisting of FHS members and representatives of USFWS, USDA-APHIS and NOAA. This committee has established a two year revision schedule. Also new position statements were made on transport of samples and screening for non-motile *Yersinia ruckeri*.

Technical Standards Committee: Greg Wiens, Joan Thomas, Chris Whipps and Maureen Purcell.

Inspection Handbook Committee: Terrence Ott (USFWS): Greg Wiens (AFS-FHS), Ken Nichols (USFWS), Joan Thomas (AFS-FHS), Linda Vannest (USFWS), Chris Whipps (AFS-FHS), Joel Bader (USFWS), Janet Warg (APHIS), Andy Goodwin (AFS-FHS President), Kevin Amos (NOAA)

Objective 1.3

Policy and Position committee has been established to address issues of concern among the FHS. This especially relates to scientific based policies of government agencies. The committee is currently studying upcoming USDA-APHIS regulation focused on containment of viral hemorrhagic septicemia. The committee has recruited 4 volunteers to help with this project.

Policy and Position Development Committee: Marilyn Blair, Ray Brunson, Christine Moffitt

Goal 2: Education/Continuing Education

Objectives 2.1 and 2.3

Resources for university courses were made available on the FHS web. These include two web based CE short courses "Histology" and "PCR techniques" (Maureen Purcell) and images of fish diseases (Andrew Goodwin). Two CE short courses were developed and taught by FHS members and sponsored by the FHS. The FHS is a RACE certified continuing education provider (No. 546) with the American Association of Veterinary State Boards.

Courses offered:

PCR and new molecular techniques, August 3. La Crosse, Wisconsin. In conjunction with FHS annual meeting. Purcell, Getchell and Marcquenski, organizers.

Fish Nutrition, Feeds and Feeding, June 12, 2012, Boise, Idaho. In conjunction with The 53rd Western Fish Health Workshop. Doug Munson and Phil Mamer, organizers.

The World Organization for Animal Health: Understanding the OIE, April 27, 2012, Lake Placid, New York. In conjunction with The 37th Annual Eastern Fish Health Workshop. Thomas Waltzek and Kathleen Hartman organizers.

CE committee: Mark Fast, David Gauthier, George Sanders, Sascha Hallett

Goal 3: Value of Membership.

Objective 3.1. Strategy 3

Voting was converted from an e-mail based system to Web based-Survey Monkey. This resulted in better than average voter participation. Some glitches were found in this first use of this service but overall the election process worked better than in previous years. New elected officers are: Vice-President- Rod Getchell, Professional Standards Committee- Kathleen Hartman, Technical Standards Committee- Kevin Snekvik, Nominating and Balloting Committee- Lincoln Tubbs, Policy/Position Development Committee- Linda Cope.

Nominating and Balloting Committee- John Drennean, Heather Ellery, Attila Karsi, Andrew Goodwin.

The listserv was initiated in 2002, and since the 2011 annual meeting, 18 updates have been sent. The list serve is provided to members as a rapid method of communicating fish health, and government related news, AFS-FHS updates, job and education opportunities and information about other fish health related organizations. The List serve is maintained and assembled by Jerri Bartholomew.

Objective 3.2. Strategy 2

5 Graduate students were awarded Snieszko Student travel awards- \$430 each to allow them to attend the FHS annual meeting and two of these were provided hotel rooms at the meeting. Two students received best presentation awards. First place was provided \$100 and second place \$50 in recognition.

Awards Committee: David Powell, Scott Weber, John Hawke.

Objective 3.2. Strategy 6

The "AFS-FHS Students" facebook page has maintained membership at about 30. A students and young professional social was held during a lunch at the annual meeting. We will be adding a student's section on the FHS web page.

Student involvement committee: Amy Long, Nicholas Phelps.

Objective 3.5. Strategy 6

The FHS Archives Committee developed proposals for permanent preservation and storage of the FHS archives and other fish-health-related material of historical

importance: A)The FHS store all its historical material at the DC Booth Historic National Historic Fish Hatchery and Archives in Spearfish, SD. B) the Section donate the material rather than loan it to DC Booth. In the event someone in the Section needed to see some of it -- perhaps someone doing historical research -- DC Booth would provide copies instead of the original material. These proposals were voted in by the AFS EXCOM at the annual meeting and a starting budget was established to help defray the costs of scanning records and archiving them. Additionally the FHS voted to pursue a DC Booth display of Snieszko Award Recipients similar to the FCS Fish culture Hall of Fame.

Archives Committee: Diane Elliot, Gary Wedemeyer, Andrew Mitchell

Other:

Interaction with Societies with related interests and concerns:

The AFS-FHS has strong ties with the American Veterinary Medical Association. Many AFS-FHS members are veterinarians and work on AVMA committees. Our CE credits are recognized by State Veterinary Boards. Myron Kebus is our AVMA advisor. FHS also has Andrew Goodwin as a non-veterinarian advisor on the AVMA Aquatic Veterinary Medicine Committee.

JOURNAL OF AQUATIC ANIMAL HEALTH

Volume: 24, Number: 3 (In Progress)

Blood Chemistry Values for Shovelnose and Lake Sturgeon (p. 135-140)

Maria S. Sepúlveda, Trent M. Sutton, Holly K. Patrick & Jon J. Amberg

Spleen Index and Mannose-Binding Lectin Levels in Four Channel Catfish Families Exhibiting Different Susceptibilities to *Flavobacterium columnare* and *Edwardsiella ictaluri* (p. 141-147)

Benjamin R. LaFrentz, Craig A. Shoemaker, Natha J. Booth, Brian C. Peterson & Donald D. Ourth

Gill Oxidative Stress and Histopathological Biomarkers of Pollution Impacts in Nile Tilapia from Lake Mariut and Lake Edku, Egypt (p. 148-160)

Ashraf M. Abdel-Moneim, Ahmed M. Abu El-Saad, Hussein K. Hussein & Samir I. Dekinesh

A *Marteilia*-Like Parasite in Blue Mussels *Mytilus edulis* in China (p. 161-164)

Zhongwei Wang, Xin Lu, Yubo Liang & Zheng Zheng

In Vitro Study of Adherence, Invasion, and Persistence of *Streptococcus iniae* in Fibroblastic-Like Fish Cell Line SAF-1 (p. 165-170)

F. El Aamri, F. Real, F. Acosta, B. Acosta, J. Valdivia, J. Ramos-Vivas & D. Padilla

Xanthogranulomatous Panniculitis of the Head of an Aquarium-Maintained California Moray (p. 171-177)

Claire Erlacher-Reid, Allison D. Tuttle & Salvatore Frasca Jr.

Pond-Level Risk Factors Associated with Columnaris Disease on Mississippi Commercial Catfish Farms (p. 178-184)

Fred L. Cunningham, S. W. Jack, David Hardin & Robert W. Wills

Effect of Trichlorfon on Hepatic Lipid Accumulation in Crucian Carp *Carassius auratus gibelio* (p. 185-194)

WeiNa Xu, WenBin Liu, XianPing Shao, GuangZhen Jiang & XianngFei Li

Kinetics of Viral Load and Erythrocytic Inclusion Body Formation in Pacific Herring Artificially Infected with Erythrocytic Necrosis Virus (p. 195-200)

Jolene A. Glenn, Eveline J. Emmenegger, Courtney A. Grady, Sean R. Roon, Jacob L. Gregg, Carla M. Conway, James R. Winton & Paul K. Hershberger

STUDENT SECTION

The student committee has started a blog for student members of the Fish Health Section. The address is <http://afs-fhs-students.blogspot.com/>. It can also be reached by going to the FHS website and clicking on the 'For Students' tab. We'll be adding more information and relevant links in the upcoming weeks as well as reviving the featured student and professional profiles. If you have something to post, suggestions on content, or would like to volunteer to be the first featured profile, please contact Amy Long or Sarah McConnachie at student.section.fhs@gmail.com. We'd also like to remind advisors to encourage their students to sign up and get involved in the Fish Health Section. Amy Long Ph.D. Candidate, Fish Health Department of Fish and Wildlife Sciences University of Idaho Moscow, Idaho 83844-1136 Fax: 208-885-9080

OTHER MEETINGS

USDA SACAH SAAH AT USGS WITH APHIS, NOAA, AND USFWS REGARDING VHS, ISA, THE NAAHP, AND THE NAHLN

Andy Goodwin

SACAH member, SAAH Interim Chair, Acronym Specialist

On September 5th and 6th, the Subcommittee on Aquatic Animal Health (SAAH) will have its first in-person meeting at the USGS laboratory in Seattle. The SAAH is a subcommittee of the Secretary of Agriculture's Committee on Animal Health (SACAH). The SACAH is a Federal Advisory Committee responsible for providing guidance to the Secretary of Agriculture on animal health issues. The primary mission on the subcommittee (SAAH) is to advise the SACAH on aquatic animal health issues, especially the implementation of the National Aquatic Animal Health Plan (NAAHP). The SAAH is patterned after an advisory committee described in the NAAHP with members that represent the aquaculture industry, state and tribal interests, and the Federal government (APHIS, NOAA, USFWS). Agenda items for this first meeting

include the future of VHS regulation, development of a national fish health laboratory network, and ISA.

JOBS



**University of Arkansas at Pine Bluff
Aquaculture/Fisheries Center
Assistant/Associate Professor (Fish
Pathology)
Pine Bluff, Arkansas**



Appointment: Twelve month tenure track (45% research, 45% extension and 10% teaching)

Qualifications: D.V.M. or Ph.D. in fish pathology or closely related field is required. Experience with U.S. commercial aquaculture production is preferred.

Nature of the Position: The aquaculture industry in Arkansas is the second largest in the United States and is one of the most diverse. Commercial fish farms in Arkansas raise catfish, baitfish, goldfish, sportfish fingerlings, hybrid striped bass, largemouth bass raised as foodfish, and fish sold as biocontrol agents. This tenure track position provides vital extension diagnostic and research support for Arkansas aquaculture. The successful candidate will oversee the four-lab (Pine Bluff, Lonoke, Lake Village, and Jonesboro) diagnostic system in the state, including fish inspections necessary for certification. He/she will also be expected to develop a dynamic extension educational program focused on fish health and biosecurity. The incumbent will develop a productive research program that focuses on priority issues that will result in more effective diagnosis, treatment, and prevention of fish health problems on fish farms. Responsibilities also include teaching a graduate course in Fish Health (every other year) and an undergraduate Biology of Fishes course once a year. The faculty member hired will be expected to mentor M.S. and Ph.D. graduate students.

Personal Characteristics: Incumbent must possess the ability to develop effective working relationships with fish farmers, regulatory agencies, county Extension faculty, other Extension specialists, researchers, staff, students, and the general public. The individual selected must be committed to solve problems on commercial fish farms, to provide a high level of research and extension support to Arkansas aquaculture, and to create an innovative and dynamic environment in the classroom.

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.

To Apply: Send letter of application, resume, official transcripts, & three letters of reference to:

Dr. Carole Engle, Director
Aquaculture/ Fisheries Center
University of Arkansas at Pine Bluff
1200 North University Drive; PO Box 4912; Pine Bluff, AR 71601
Telephone: (870)575-8523; FAX: (870)575-4637; e-mail: cengle@uaex.edu

Deadline: September 30, 2012. Deadline may be extended until suitable applicant is found.

RESOURCES

AADAP NEWSLETTER

The new issue of the AADAP Newsletter (Volume 8-2, August 2012) is available; it can be viewed and/or downloaded by [clicking here](#) or copying this URL into your browser <http://www.fws.gov/fisheries/aadap/newsletter.htm>.

FINAL REPORT OF THE EMERGENCY REGIONAL CONSULTATION ON EARLY MORTALITY SYNDROME / ACUTE HEPATOPANCRE

<http://www.enaca.org/modules/wfdownloads/singlefile.php?cid=11&lid=1059>

Description:

On 9-10 August 2012, an [emergency regional consultation on Early Mortality Syndrome](#) (EMS) of shrimp and associated pathology described as Acute Hepatopancreatic Necrosis Syndrome (AHPNS) was held in Bangkok, Thailand. The consultation brought together over 87 participants including international shrimp health experts, national governments in the Asia Pacific region and industry stakeholders to share information on this emerging disease, its occurrence, pathology and diagnosis, and to develop a coordinated regional response to the issue. The consultation was organised jointly by NACA and the Australian Government Department of Agriculture, Fisheries and Forestry (DAFF). [Audio recordings](#) of 19 technical presentations made at the regional Consultation meeting are available on NACA website.