



Fish Health Section



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

FHS NEWS

MESSAGE FROM THE INCOMING PRESIDENT

“To investigate the origins of disease, one should first study the effects of the seasons, of the hot or cold winds, of the soil, naked or wooded, of the rains. Secondly, one will consider most attentively the way the inhabitants live, drink, eat, are indolent or active in exercise or labor.”

-Hippocrates, 5th century BC

The difficulties involved with understanding disease processes in humans were well-articulated by the ‘Founder of Western Medicine’ more than 2700 years ago. These same challenges, as well as others, exist in our world as fish health professionals; however our field is based on decades of experience rather than centuries. In the relatively short period of time since fish health became recognized as a discipline, scientific advancements have occurred at an incredible pace; so much so, that fish are now used as models for human diseases. The pace of these advancements is a direct reflection of our:

- Willingness to embrace knowledge from other disciplines (human medicine, epidemiology, molecular biology, immunology, microbiology, fisheries science, etc.)
- Dedication and commitment to the field
- Transparency and communication that is fostered by organizations like the AFS – Fish Health Section.

My roles as President of the FHS are to facilitate the progression of this scientific and intellectual advancement and to foster communication of fish health issues both within and outside our membership circle. Throughout my term, I will be relying heavily on the assistance and guidance offered by the FHS leadership committees. I would like to thank Past President Larry Hanson for contributions to the Section during the past year; I will undoubtedly be calling Larry and the other Past Presidents for their input on important decisions. I would also like to introduce the other current members of the FHS Executive Committee:

- Larry Hanson (Past President)
- Rod Getchell (President-Elect)
- Doug Munson (Vice President)
- Jill Rolland (Secretary – Treasurer)
- Maureen Purcell (Chair -Technical Standards Committee)
- Hui-Min Hsu (Chair – Professional Standards Committee)

And newly-elected members of FHS Committees:

- Amy Long (Nominating and Balloting Committee)
- Evi Emmenegger (Policy / Position Development)
- Nick Phelps (Technical Standards Committee)
- Trace Peterson (Professional Standards Committee)

The recent FHS annual meeting was a huge success. Combined with the Western Fish Disease workshop in Port Townsend, WA, the meeting was attended by nearly 100 fish health professionals. Special thanks to Jake Gregg and Lucas Hart for their involvement as local organizers. Another big reason for the success of the meeting was the behind-the-scenes involvement of the Pacific Northwest Fish Health Protection Committee (PNFHPC), who served as the financial banker for the meeting (thank you John Kerwin). Cash prizes, sponsored by the PNFHPC, were awarded to all students who delivered oral presentations, and special chalice trophies were awarded to the best presentations by a Masters student [Sean Roon, Oregon State University (advisor: Jerri Bartholomew)] and Ph.D. student [Michelle Jakaitis, Oregon State University (advisor: Jerri Bartholomew)]. Additionally the FHS student travel award was presented to Amy Teffer, University of Victoria (advisor: Frances Juanes).

Looking forward to the upcoming year, I have several major agenda items that I would like to accomplish. First and foremost, I will be involved with hosting the International Symposium on Aquatic Animal Health (ISAAH) in Portland Oregon from Aug 31 – Sept 4, 2014. The Oversight, Program, and Sponsorship / Promotion Committees have been hard at work and you won't want to miss this grand event. Second, there are several FHS committee assignments that I would like to see come to fruition this year including:

- Publication of a new edition of the FHS Blue Book
- Archiving historical FHS materials at DC Booth
- Clarification of the responsibilities and procedures for the Continuing Education Committee in the FHS Procedures Manual
- Involvement of the FHS in inter-laboratory consistency standards that are currently being developed

My last agenda item involves the establishment of clear guidelines for FHS expenditures. Jill Rolland has done a phenomenal job as Secretary / Treasurer over the past several years, during which time the Section budget balance has increased tremendously. Periodically throughout the year, the FHS Ex Comm receives requests for financial contributions from various professional organizations. I will be forming an ad-hoc Committee on FHS Expenditures, tasked with establishing the requisite criteria that these requests must satisfy in order to be considered for funding by the FHS Ex Comm. Additionally, I will ask this committee to entertain the possibility of establishing a FHS scholarship fund that could be advertised and awarded to a deserving student when sufficient funds exist. Please let me know if you have any interest in serving on this committee.

Thank you for your continued dedication to the success of the FHS; please feel free to contact me throughout the year as new issues arise that may require the attention or support of the FHS.

Sincerely,
Paul Hershberger

MESSAGE FROM THE ARCHIVE COMMITTEE:

It is important that the Section move ahead with this archive project before historic documents, photographs, and film get misplaced, lost, or even thrown out by someone who does not realize their value. We are asking Section members who possess historical material to help with this project by shipping the material to the D.C. Booth archive for preservation, following approval for shipment by the FHS Archives Committee or Excom. The Section needs to keep a record of the material shipped to ensure that important records are sent and to avoid unnecessary duplication.

The procedure for donating material to the FHS archives is as follows:

- 1) Notify the FHS Archives Committee of your intent to ship material to D.C. Booth, and include a list of the material you intend to donate. Please send your request to:
Diane Elliott dgelliott@usgs.gov
- 2) After approval of the shipment, you will be sent instructions for packing and shipping the material to D.C. Booth to ensure that it arrives undamaged.
- 3) You will be asked to notify D.C. Booth personnel before shipment of items so that they can anticipate receipt of the material.
- 4) Ship archive material to D.C. Booth (Fedex shipment preferred).
- 5) Submit shipping receipt to FHS Secretary-Treasurer to receive reimbursement for shipping charges.

NEW BLUE BOOK TO BE PUBLISHED IN 2014!

The AFS-FHS Technical Standards Committee has begun work on the next installment of the AFS-FHS Blue Book, which will be published in 2014. We have identified chapters to be updated and some new chapters to be added, but are also seeking your input. There may be chapters that require minor or major changes, and chapters that you consider important but are missing. Any comments received will be reviewed by the committee. Comments can be sent to the incoming chair Maureen Purcell (mpurcell@usgs.gov) or the outgoing chair Chris Whipps (cwhipps@esf.edu).

AFS-FHS Technical Standards Committee
Maureen Purcell, Chair
Kevin Snekvik
Nicholas Phelps
Chris Whipps (outgoing member)

JOURNAL OF AQUATIC ANIMAL HEALTH

Volume: 25, Number: 2

Pharmacokinetics and Tissue Distribution of Thiamphenicol and Florfenicol in Pacific White Shrimp *Litopenaeus vannamei* in Freshwater following Oral Administration (p. 83-89)

Wenhong Fang, Guolie Li, Shuai Zhou, Xincang Li, Linlin Hu, Junfang Zhou

Clupeid Response to Stressors: The Influence of Environmental Factors on Thiaminase Expression (p. 90-97)

J. M. Lepak, C. E. Kraft, M. J. Vanni

Effect of Dietary Herbal Supplements on Some Physiological Conditions of Sea Bass *Dicentrarchus labrax* (p. 98-103)

Sevdan Yilmaz, Sebahattin Ergün, Ekrem Şanver Çelik

Prevalence of *Francisella noatunensis* subsp. *orientalis* in Cultured Tilapia on the Island of Oahu, Hawaii (p. 104-109)

Esteban Soto, Kathleen McGovern-Hopkins, Ruth Klinger-Bowen, Bradley K. Fox, James Brock, Nathene Antonio, Zelda van der Waal, Stephen Rushton, Aileen Mill, Clyde S. Tamaru

Specific and Rapid Diagnosis of *Edwardsiella tarda* by a Novel Loop-Mediated Isothermal Amplification Targeting the Upstream Region of *hlyb* Gene (p. 110-118)

Guo-Si Xie, Jie Huang, Qing-Li Zhang, Cheng-Yin Shi, Xiu-Hua Wang, Qing-Hui Liu

A Comparison of Two Methods for Colorimetric in situ Hybridization Using Paraffin-Embedded Tissue Sections and Digoxigenin-Labeled Hybridization Probes (p. 119-124)

Joe Marcino

Toxicity of Copper Sulfate to *Flavobacterium psychrophilum* and Rainbow Trout Eggs (p. 125-130)

Eric J. Wagner, Randall W. Oplinger

Physiological Changes in the Red Drum after Long-Term Freshwater Acclimation (p. 131-141)

Mariel Gullian-Klanian

Efficacy of Spray Administration of Formalin-Killed *Streptococcus agalactiae* in Hybrid Red Tilapia (p. 142-148)

O. Noraini, M. Y. Sabri, A. Siti-Zahrah

OTHER MEETINGS AND WORKSHOPS

WESTERN DIVISION AFS 2014 - <http://wdafs.org/2013/05/test/>

This meeting will be held for the first time in Mexico

EAFP 2013 – see attached **EAFP AGENDA**

We will be holding a myxozoan session again this year at the meeting, so hope to see some of you there. It looks like a great meeting with a lot of diverse topics.

JOBS

BIOLOGIST, NEW ENGLAND AQUARIUM – see attached **New England Aquarium Biologist**

RESOURCES

WESTERN FISHERIES SCIENCE CENTER NEWS

Please enjoy the latest issue of our center newsletter, designed to update you on science, new publications, events and news from the U.S. Geological Survey Western Fisheries Research Center (WFRC). WFRC scientists conduct research on aquatic animal health; restoration ecology; and drivers of ecosystem change at six different field stations throughout Washington, Oregon and Nevada. We hope that this newsletter will help familiarize you with WFRC science and update you on our latest developments. Please forward to colleagues who may also benefit from these communications. To subscribe (or unsubscribe) to the Western Fisheries Science News mailing list, please do so at <http://wfrc.usgs.gov/newsletter/maillist.html> Read online: <http://wfrc.usgs.gov/newsletter/>

FISH FARMING NEWS – See attached **Rod's FFN column on molecular methods**

See attached for the latest column – thanks Rod!

DR. STEPHEN ELLIS, LED MAINE ISA EFFORT, DEAD AT 67 (note – this is reprinted from the FFN article column above, but I felt it deserved special attention)

VASSALBORO, ME – The fish health community is mourning the loss of Dr. Stephen K. Ellis who died at his home here this past April from pancreatic cancer. He was 67. A Maine native, Ellis received his doctor of veterinary medicine (DVM) degree from Cornell University in 1970. He was involved in veterinary practices in New York for several years before returning to Maine in the late 1970s. Ellis joined the US Dept. of Agriculture's Animal and Plant Health Inspection Service (USDA/APHIS) in 1980 where he served in the agency's veterinary services sector for many years. His

work there included participation in the control of many animal, poultry, and fish disease outbreaks throughout North and South America and Western Europe, as well as his standard federal veterinary duties in Maine. Ellis's career concluded with his leadership of a very successful campaign to control infectious salmon anemia (ISA), a devastating and often lethal viral disease in Maine's commercially cultured salmon industry. He is survived by three grown children and their families. At the family's request there were no visiting hours or funeral services