



Fish Health Section



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

FHS NEWS

OUTGOING PRESIDENT'S REPORT

Reflections on the Past Year

This past year as FHS President has been a truly enlightening and rewarding experience; the memories I hold most closely include the interactions I had and the friendships I made with FHS members. In my opening address to the Section last year, I mentioned that my primary goal was to incorporate an emphasis on diseases of wild fishes, yet remain true to our roots by continuing to support the health of hatchery and cultured fishes. This objective was most effectively realized at the ISAAH, which in addition to containing sessions on traditional fish health topics, also included a full day of sessions that were devoted to diseases of wild fishes. Additionally, four of the eight plenary speakers discussed topics that were germane to the health of wild animals. As Thierry Work mentioned in his plenary talk, the field of disease ecology is in desperate need of support from professionals with a strong foundation in disease fundamentals, and I believe that FHS members are in a unique position to provide this level of expertise.

By all accounts, the ISAAH-7 was a huge success; we hosted 251 registered attendees from 20 countries, two student workshops, a Continuing Education Session, awards for three best student presentations, seven student travel awards, and a scientific art competition. We were honored to provide the Snieszko Distinguished Service Award, the highest award offered by the FHS, to Dr. Takashi Aoki for his outstanding contributions to our field throughout his illustrious career. The success of the meeting was in large part due to the tireless work of volunteers on numerous planning committees (Stephen Atkinson, Jerri Bartholomew, Vicki Blazer, Ray Brunson, Andy Goodwin, Larry Hanson, Sascha Hallett, Marcia House, Andy Kane, Gael Kurath, Jill Rolland, and Ron Thune); special thanks to Jerri Bartholomew, Sascha Hallett, and Jill Rolland for pulling it all together!

I am very proud to have served during an exceptionally productive year for the FHS, and I must express my sincere appreciation to the committee Chairs and members who worked above and beyond their duties. Perhaps the most exciting news this year has been a major advancement in the **Blue Book, which is now available in open access format online for free** at <http://www.afs-fhs.org/bluebook/bluebook-index.php>. The FHS leadership has been discussing this plan for quite some time, with Chris Whipps leading the charge several years ago. The current Technical Standards Committee (Maureen Purcell - Chair, Kevin Snekvik, and Nick Phelps) saw this plan through to fruition. Also, special thanks to Andy Goodwin for transitioning the new Blue Book format onto the FHS web page. This transformation to open access was essentially cost-neutral for the Section, as the ever-increasing publication costs were barely offset

by our previous Blue Book subscription fees. As a result of its new format, we have effectively eliminated the long delays that were historically associated with publication, and the Blue Book can be updated much more regularly. For example, the current version contains new chapters on weiselliosis, hematodiniasis, and electron microscopy for diagnostic virology; additionally, updated and revised chapters included viral erythrocytic necrosis, and motile *Aeromonas* septicemia (thanks to all the volunteer authors).

Other news from the FHS Committees included:

- The expansion of the 'Student Subsection' to the 'Students and Young Professionals Subsection', which will include recent graduates (≤ 5 years out of school) in an effort to encourage greater continuity within the subsection and to encourage a more engaged forum of young professionals with similar professional interests.
- The Section currently has 29 Certified Fish Pathologists (in 2014, we had one new certification, and 5 re-certifications) and 56 Certified Fish Health Inspectors (in 2014, we had one new certification and 13 re-certifications).

I am also pleased to announce that the Section is very secure financially, thanks in large part to our two-term Secretary / Treasurer – Jill Rolland. During my next year as Past President, I will be working with Rod Getchell and the Ad Hoc Expenditures Committee (Scott LaPatra, Jill Rolland, Andy Goodwin, and John Hawke) to recommend changes to our expenditures procedures that increase financial transparency and benefit the future of our Section.

I am proud to report that the FHS section remains extremely active, and I am excited to welcome Rod Getchell as the new FHS President.

Sincerely,
Paul Hershberger
FHS Past President



Incoming President
Rod Getchell
presenting the
President's plaque to
Paul

ISAAH WRAP-UP

The Program and abstract book can be downloaded at the following link:

isaah-7.science.oregonstate.edu/files/isaah/ISAAH-7%20program.pdf

You can view symposium photos in the following Google Drive folder: **ISAAH2014_PHOTOS** (including group photo)(these can be viewed by anyone with the link, but not edited):

<https://drive.google.com/folderview?id=0B2Kp6-0p96X5SXJaWU9jQndaWmc&usp=sharing>

If anyone would like to share their photos, please create a folder with your last name in the folder

Incoming Photos:

<https://drive.google.com/folderview?id=0Bz-BRq9yF-7CZThrWHI2cjN2cDA&usp=sharing>



Seventh International Symposium on Aquatic Animal Health

August 31 – September 4, 2014 Portland, Oregon, USA

Proceedings



SNIESZKO DISTINGUISHED SERVICE AWARD

For those of you who did not attend the ISAAH meeting, this year the Snieszko Award was presented to Dr. Takashi Aoki during the dinner cruise. The international setting was appropriate for honoring an esteemed colleague and as you can see, he was quite pleased.



BLUE BOOK

The Fish Health Section – BLUE BOOK, 2014 Edition, “Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens” is now online and open access

Currently available at: <http://afs-fhs.org/bluebook/bluebook-index.php>

In 2014, the FHS Executive Committee approved an online / open access format. This new format will allow the technical standards committee to return to an annual publication cycle for the Blue Book. We hope that the new online, open access format will attract a new audience for the Blue Book and enhance the Section’s reputation as a leading source for high quality and relevant information on the detection and diagnosis of aquatic animal diseases.

New or updated for 2014:

Diagnostic section: Motile aeromonas septicemia, Weissellosis, General procedures for electron microscopy, Viral erythrocytic necrosis, and Infection with hematodinium

Inspection section: 5.2 Myxobolus cerebralis, A3.4 virology position statement and A3.5 parasitology position statement.

Questions, please contact any member of the technical standards committee:

Keven Snekvik, Chair (ksnek@vetmed.wsu.edu)

Nick Phelps (phelp083@umn.edu)

Maureen Purcell, (mpurcell@usgs.gov)

STUDENT-YOUNG PROFESSIONAL SUBSECTION

Attention all fish health Section students and young professionals. Your representatives have created a LinkedIn page that we invite you all to join:

http://www.linkedin.com/groups?home=&gid=8129129&trk=groups_guest_about-h-logo

The goal of the page is to help fish health students and budding professionals find each other and get connected. We are hoping that this will allow students to gain mentorship from young professionals and provide a platform to post jobs, interesting questions and general ideas surrounding fish health.

Hope to see you on there!

JOURNAL OF AQUATIC ANIMAL HEALTH

Volume: 26, Number: 3

Screening Medicinal Plants for Use against *Dactylogyrus intermedius* (Monogenea) Infection in Goldfish (p. 127-136)

Yang Hu, Jie Ji, Fei Ling, Yunhe Chen, Lin Lu, Qizhong Zhang, Gaoxue Wang

Identification of Genes Involved in Taura Syndrome Virus Resistance in *Litopenaeus Vannamei* (p. 137-143)

I. Boube, J. M. Lotz, A. E. Pozhitkov, S. Li, R. J. Griffitt

Dietary Supplementation with Allspice *Pimenta dioica* Reduces the Occurrence of Streptococcal Disease during First Feeding of Mozambique Tilapia Fry (p. 144-148)

Sevdan Yilmaz, Sebahattin Ergün

The Effects of a Sublethal Dose of Botulinum Serotype E on the Swimming Performance of Channel Catfish Fingerlings (p. 149-153)

Rachel Beecham, Torri Thomas, Dana X. Gao, Patricia S. Gaunt

Microbiological Investigation of Persistent Mortalities in *Litopenaeus vannamei* Grown in Low Saline Waters in India (p. 154-159)

Hirekudel Sanathkumar, Charan Ravi, Suresh Babu Padinhatupurayil, Mini Mol, Jilagam Krishna Prasad, Binaya Bhusan Nayak

Comparison of the Susceptibility of Four Rainbow Trout Strains to Cold-Water Disease (p. 160-167)

Eric J. Wagner, Randall W. Oplinger

Cell Culture Medium Inhibits Antigen Binding Used in an ELISA for Detection of Antibodies against Nervous Necrosis Virus (p. 168-172)

Bomi Choi, Hyun Jung Gye, Myung-Joo Oh, Toyohiko Nishizawa

Development of a Multiplex Assay to Measure the Effects of Shipping and Storage Conditions on the Quality of RNA Used in Molecular Assays for Detection of Viral Haemorrhagic Septicemia Virus (p. 173-180)

A. Siah, H. Duesund, K. Frisch, A. Nylund, P. McKenzie, S. Saksida

Histopathologic Changes in Disease-Resistant-Line and Disease-Susceptible-Line Juvenile Rainbow Trout Experimentally Infected with *Flavobacterium psychrophilum* (p. 181-189)

David P. Marancik, Timothy D. Leeds, Gregory D. Wiens

Survival of Fish-Pathogenic Strains of *Aeromonas hydrophila* under Starvation (p. 190-193)

Xiaojun Zhang, Wenlong Cai, Zhen Tao, Cova R. Arias

Development and Characterization of a Largemouth Bass Cell Line (p. 194-201)
Rodman G. Getchell, Geoffrey H. Groocock, Emily R. Cornwell, Vanessa L. Schumacher, Lindsay I. Glasner, Barry J. Baker, Stephen A. Frattini, Gregory A. Wooster, Paul R. Bowser

MEETINGS

THE 7TH AQUATIC MODELS OF HUMAN DISEASE CONFERENCE

- <http://aqmhd.txstate.edu/>

The current speaker list and session topics are attached!! Slots are filling fast!

RESOURCES

REQUEST FOR PHOTOS

Chris Darnall from the Missouri Dept. of Conservation is looking for a couple of good photos for their upcoming guide: "Diseases of Missouri Fish and Wildlife: A Field Guide." The guide is primarily for field staff but copies will be available to the public. Photos are needed of columnaris and *Aeromonas hydrophila* ulcers in catfish, trout, or another very common sportfish such as bass. The photos should be of the whole fish, must be at least 300 dpi, and in sharp focus as the printed photo will be a maximum of 3" wide when printed. Any photo used will be credited in the guide so the name of the photographer and their agency/university/etc. association should be included with the photo. Please email photos to Chris at chris.darnall@mdc.mo.gov.

Thanks,
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Warsaw, MO 65355
Ph: 660-438-4465 x 6409
Fax: 660-428-1256

FISH FARMING NEWS – see attached FFN DZ transmission.pdf

FISH VACCINATION 2014 -

http://www.researchandmarkets.com/publication/mjyxhkx/fish_vaccination

Fish farming, in seawater and in freshwater, in cages, tanks or ponds, makes an ever-increasing and significant contribution to the production of aquatic food in many regions of the world. During the last few decades there has been significant progress and expansion in the aquaculture sector, characterized by intensified production and the exploitation of many new species.

Aquaculture must be a sustainable bio-production, environmentally as well as economically. Disease prevention in order to reduce losses, and the use of antimicrobials is crucial in this perspective. Vaccination has, in a few years, become the most important method for disease prevention in aquaculture, and effective prophylaxis based on stimulation of the immune system of the fish is essential for further development of the industry.

This book provides general information about disease prevention in fish by vaccination, as well as specific descriptions of the correct use of vaccines against the most important bacterial and viral infectious diseases of aquatic animals. The book is written by some of the world's leading experts in the subject, drawn from many countries where aquaculture is a significant and expanding part of the economy.

Fish Vaccination is an encyclopedia of fish vaccinology for every present and future aquaculturist. Professionals in the aquaculture sector, including fish veterinarians and fish biologists, within the industry, in scientific institutions and regulatory authorities will all find a huge wealth of commercially important knowledge within this book. Libraries in all universities where aquaculture, biological and veterinary sciences are studied and taught should have copies of this important book on their shelves.

WESTERN FISHERIES SCIENCE NEWS - <http://wfrc.usgs.gov/newsletter/>