



Fish Health Section



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

FHS NEWS

The Passing of Dr. William Toshio Yasutake

We are saddened to report the death of Dr. William Toshio (Tosh) Yasutake, who passed away peacefully at home on December 12, 2016 at the age of 94. He is survived by Fumi, his wife of 66 years, as well as four children and six grandchildren.

Tosh was born on 10 June 1922 in Seattle, Washington, to Jack and Hide Yasutake. He was in his first year of studies at the University of Washington when Pearl Harbor was attacked by Imperial Japan on December 7, 1941. Following the attack, Tosh and his family (father, mother, sister and two brothers) were among the 110,000 to 120,000 people of Japanese ancestry who were forced from their homes on the U.S. Pacific Coast and incarcerated in internment camps in the interior. In 1942, Tosh enlisted in the U.S. Army. He proudly served as a combat medic in the famed [442nd Regimental Combat Team](#) during World War II and earned a [Bronze Star for bravery](#). After the war, he returned to the University of Washington on the GI bill and received a B.S. degree in Zoology in 1951. In 1953 he began his research career at the U. S. Fish and Wildlife Service (USFWS) Western Fish Nutrition Laboratory, where he conducted pioneering research on nutritional fish diseases. Yasutake was one of the first to recognize hepatoma (liver cancer) in hatchery-reared rainbow trout and helped trace the disease to an aflatoxin produced by the mold *Aspergillus flavis* growing on fish diet ingredients during storage. In 1960, he transferred to the Western Fisheries Research Center (WFRC) in Seattle (then, the Western Fish Disease Laboratory) to start a fish pathology diagnostic laboratory. There, he described the histopathology of economically important fish diseases, identified etiologic agents, and worked with hatchery biologists to improve the health, quality, and survival of anadromous salmonids released from federal and state mitigation and conservation hatcheries. Yasutake was instrumental in recognizing that the viruses of Oregon sockeye disease and Chinook salmon virus disease were one entity and in giving the disease its present name: infectious hematopoietic necrosis. In recognition of his pioneering research, Yasutake was awarded a doctorate in fish pathology by the University of Tokyo (1980), the first American to have been so honored. In 1983, he published his classic textbook "[The Microscopic Anatomy of Salmonids: An Atlas](#)." It quickly became a standard reference work in fisheries biology and is still in wide use today. For his outstanding career achievements, Yasutake was presented in 1987 with the [S.F. Snieszko Distinguished Service Award](#), the highest honor bestowed by the American Fisheries Society Fish Health Section (AFS-FHS). Tosh retired in 1988, but continued his research as a Senior Scientist Emeritus providing technical assistance to federal and state conservation hatcheries and to the aquaculture industry worldwide. His culminating project was to digitize his lifetime collection of photomicrographs and prepare an atlas, "[Histopathology of Selected Parasitic Salmonid Diseases: A Color Atlas](#)" that is now posted on the websites of the

WFRC (U.S. Geological Survey) and the AFS-FHS. Although his presence will be sorely missed, his research contributions have become part of the foundation of today's knowledge of fisheries biology and have assured him a place in history.



Fish Health Section Quality Assurance Program for Laboratories

The QA/QC committee has announced the Tier 1 application period for 2017 will open **January 1, 2017**, and all applications must be received by **March 31**.

Tier 1 is the "pre-qualification" stage for fish health laboratories, and includes identification of key laboratory personnel, laboratory safety and biosecurity, as well as standard operating procedures. Tier 2 - "recognition" is under development, and details should be available by the end of 2017.

More information and links to the application and supporting documents are available at the FHS Website at <http://www.afs-fhs.org/test2.php>

2016 Edition of the Blue Book!

The new 2016 edition of the American Fisheries Society, Fish Health Section Blue Book is now available online and contains a new chapter on Viral Encephalopathy and Retinopathy, caused by Nervous Necrosis Virus (NNV).

Also included is an introductory chapter in the section on Diseases of Crustaceans and several chapter updates, including Erythrocytic Inclusion Body Syndrome (EIBS), Viral Erythrocytic Necrosis (VEN), and Testing for Mycoplasma in Cell Cultures.

<http://www.afs-fhs.org/bluebook/bluebook-index.php>

MEETINGS, WORKSHOPS AND COURSES

8th International Symposium on Aquatic Animal Health (ISAAH)

It is with great pleasure that we write to invite you to participate in a significant international meeting, the **8th International Symposium on Aquatic Animal Health**, which will be held in **Charlottetown, Prince Edward Island, Canada, 2 – 7 September 2018**. For more information on the meeting and the venue, please view the two PDF's entitled, "ISAAH List Servers Announcement Oct 2016" and "ISAAH Location Presentation".

Fish Health Bonanza!!!! Save the Date for the 2017 AFS-FHS meeting (Jointly with the Great Lakes Fishery Commission Fish Health Committee) followed by the Eastern Fish Health Workshop

Sparty invites you to a full week of Fish Health Bonanza on April 1-7th, 2017!!!

- 2017 AFS-FHS meeting jointly with the Great Lakes Fishery Commission Fish Health Committee (April 1-3)
- Eastern Fish Health Workshop (April 3-6)
- Continuing Education (April 7)

This is an exciting announcement and the meetings will be held at the Kellogg Hotel and Conference Center at Michigan State University in East Lansing, MI.

Please see the PDF entitled, "FHS2017" for the Save the Date!

2017 Western Fish Disease Workshop – Save the Date

The Northwest Indian Fisheries Commission and the Washington Department of Fish and Wildlife invite you to attend the 58th Western Fish Disease Workshop on June 20-22, 2017 at the Clearwater Resort located on the Kitsap Peninsula in Washington.

Please see the PDF entitled, "2017 WFDW save-date" for more information.

Health and Colony Management of Laboratory Fish MDI Biological Laboratory August 13–19, 2017

Health and Colony Management of Laboratory Fish is a short course to help colony managers, researchers and veterinarians monitor and maintain the health of a colony of aquatic organisms. This course is broad and is appropriate for technical staff, students, postdocs, investigators, as well as veterinarians and veterinary trainees.

The course consists of lecture, laboratory exercises and discussions. With a high faculty to student ratio, 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.

For more information concerning this course, please see the PDF entitled, "Health colony mgt 2017" or visit the website:

<https://mdibl.org/course/health-and-colony-management-of-laboratory-fish/>

JOBS/GRADUATE ASSISTANTSHIPS

Fishery Biologist 1- Fish Health Lab Microbiologist Pacific States Marine Fisheries Commission Eagle, ID

The Pacific States Marine Fisheries Commission is seeking a Microbiologist to perform microbiology tests and do limited consultation regarding microbiology.

For more information concerning this position and how to apply, please follow the link below:

<https://www2.apply2jobs.com/PSMFC/ProfExt/index.cfm?fuseaction=mExternal.showJob&RID=813>

Veterinarian and MBL Scientist Marine Biological Laboratory Woods Hole, MA

The incumbent is primarily responsible for leading a marine resources service core, directing an independent research program, and providing veterinary oversight to the MBL, including IACUC leadership.

For more information concerning this position please see the PDF entitled, "Veterinarian and MBL Scientist".

RESOURCES/NEWS

A Guide to the Identification of Tailed Myxobolidae of the World: *Dicauda*, *Hennegoides*, *Henneguya*, *Laterocaudata*, *Neohenneguya*, *Phlogospora*, *Tetrauromena*, *Trigonosporus* and *Unicauda*

The identification guide entitled, “A Guide to the Identification of Tailed Myxobolidae of the World: *Dicauda*, *Hennegoides*, *Henneguya*, *Laterocaudata*, *Neohenneguya*, *Phlogospora*, *Tetrauromena*, *Trigonosporus* and *Unicauda*”, should be a useful reference for anyone around the world who is interested in identifying tailed members of Myxobolidae, especially *Henneguya* species. It should also be helpful for those who perhaps have a new species that doesn't quite match the ones described in the book.

The book can be found and downloaded for free at:
http://digitalcommons.usu.edu/oer_textbooks/1

A new edition of the Guide to Using Drugs, Biologics, and Other Chemicals in Aquaculture has just been released!



The new edition includes updates regarding recent changes to antibiotic drug accessibility and descriptions of the most common fish diseases. Download your copy of the Guide today!

<http://fishculture.fisheries.org/working-group-on-aquaculture-drugs-chemicals-biologics/wgadcb-resources-tools/guide-to-using-drugs-biologics-and-other-chemicals-in-aquaculture/>