

Fish Health Section



FHS NEWS

Fish Health Section website: <https://units.fisheries.org/fhs/>

Fish Health Section Facebook Site: <https://facebook.com/FishHealthSectionAFS>

FHS Listserv cleanup

We recently conducted a cleanup of the emails on the listserv based on bounce backs. If you know of someone who didn't receive this newsletter that would still like to receive it, please have them contact me at stacy.a.strickland@state.or.us with a working email address to add back to the listserv. At this time we aren't requiring listserv contacts to be AFS-FHS members, so if you receive the newsletter and emails and aren't a member, you won't automatically get removed from the listserv during these kinds of cleanups.

FDA Seeks Public Comment on Potential Approach for Defining Durations of Use for Certain Medically Important Antimicrobial Drugs for Food Animals

The U.S. Food and Drug Administration recently published a concept paper to obtain early input from the public on a potential framework for how animal drug sponsors could voluntarily make changes to the approved conditions of use for certain medically important antimicrobial drugs to establish a defined duration of use for those indications that currently lack a defined duration of use. FDA also published a notice in the Federal Register that invites the public to comment on specific questions regarding the concept paper. FDA is accepting public comments on the concept paper until June 11, 2021.

Additional information is available, including instructions for how to provide comments, at the following link: <https://www.fda.gov/animal-veterinary/cvm-updates/fda-seeks-public-comment-potential-approach-defining-durations-use-certain-medically-important>

MEETINGS, WORKSHOPS AND COURSES

9th International Symposium on Aquatic Animal Health (ISAAH)

Santiago, Chile

September 4-8, 2022

See attached pdf for more info.

27th Annual Aquaculture Drug Approval Coordination Workshop

Due to the ongoing COVID-19 pandemic and for the safety of everyone, the 27th Annual Aquaculture Drug Approval Coordination Workshop will be held VIRTUALLY, from July 27-29th, 2021. If you're interested in giving a presentation at the workshop, or if you have any specific aquaculture drug/drug approval process-related questions that you would like addressed during the workshop, please reach out to [Julie Schroeter](#) by **May 28th, 2021**. More details about the workshop, including

registration information, will be available soon via the [AADAP website](#) and the [AADAP Update](#). Please don't hesitate to reach out if you have any questions. Thank you.

Calling all Aquaculture America 2021 attendees!

Are you interested in speaking in a special session at Aquaculture America 2021, to be held in San Antonio, Texas from August 11th-14th, 2021? Please see the link below to learn more about the National Aquaculture Association (NAA) special sessions that AADAP is co-hosting with the Aquatic Drug Approval Coalition (ADAC) and the Association of Fish and Wildlife Agencies-Drug Approval Working Group (AFWA-DAWG).

<https://www.fws.gov/fisheries/aadap/Expert-Presenters-Invited-Aquaculture-America-2021.html>

JOBS/GRADUATE ASSISTANTSHIPS

Fish Health Program Manager Wyoming Game and Fish Dept.

Laramie, WY

Closes 3/31/21

See attached .pdf.

M.S. Position in Fish Health

Auburn University

Auburn, AL

Closes 3/31/21

See attached .pdf.

Zebrafish Related Job Announcements

<https://wiki.zfin.org/display/jobs/Zebrafish-Related+Job+Announcements>

RESOURCES/NEWS

Aquatic Animal Drug Approval Partnership (AADAP) Updates are now available online:

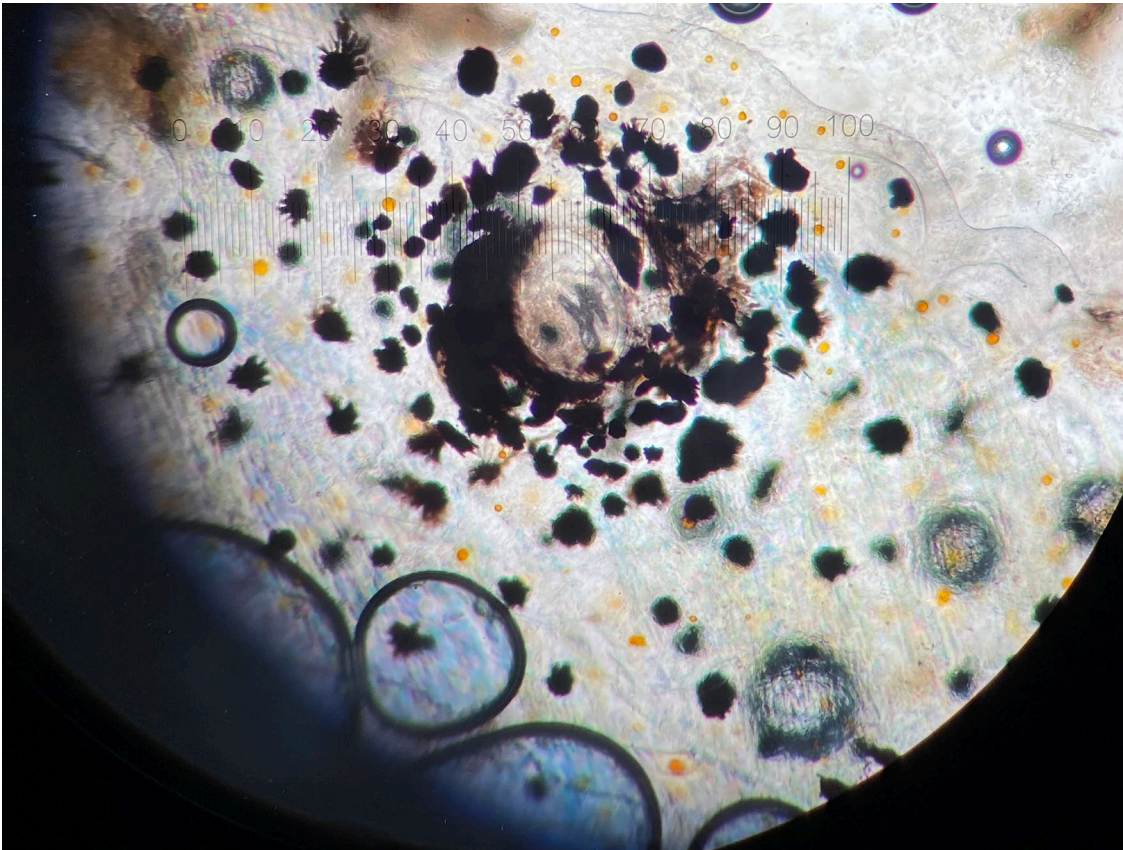
https://www.fws.gov/fisheries/AADAP/aadap_update.html

Retirement sale of lab equipment and cabinets. Send email to John Cvitanich at johndcvitanich@gmail.com or call 541-401-4927 to inquire about available items. See attached .pdf for examples of items, descriptions, and photos.

AFS Job Board changes

Check out the new AFS [Career Center](#) with new and improved features for both job seekers and employers. Job hunters now benefit from improved search functions and email alerts. While employers can peruse candidate applications and submit jobs more quickly and easily through an online submission form with a credit card payment system. Individual AFS members can still advertise for assistants and internship positions at no charge. See the AFS member employer [pricing options](#).

EDITOR'S RANDOM PICS



Trematode metacercariae in a mountain whitefish scale, Deschutes River, OR, March 2021.



PONTIFICIA
UNIVERSIDAD
CATÓLICA
DE CHILE



Greetings, Fish Health Section members and colleagues worldwide!

We are pleased to announce the 9th International Symposium on Aquatic Animal Health (9th ISAAH) will be held 4 – 8 September 2022, in Santiago, Chile. The ISAAH is a truly unique event hosted by the Fish Health Section of the [American Fisheries Society](#) and held every four years. The ISAAH typically attracts 300–400 fish health professionals from around the world. This will be the first time ISAAH is hosted outside North America!

As a global forum for interdisciplinary collaboration and communication, ISAAH aspires to create an environment of fellowship, to learn and share the latest groundbreaking research, with a vision of building a better future for aquatic animal health professionals. The 9th ISAAH will bring together scientists from across the globe to open new avenues of research and help foster international collaborations.

The 9th ISAAH will be held at the [Extension Center](#) of the [Pontifical Catholic University \(PUC\)](#). Founded in 1888, the PUC is one of Chile's oldest universities and one of the most well-respected educational institutions in Latin America. Chile is a key player in global aquaculture and salmon farming as well as aquatic ecosystem resource management. [Chile](#) has many diverse habitats, from the Andes Mountains to the Pacific Ocean, from the desert in the extreme north to the Patagonia region in the south. Enjoying more than 5,000 km of coastline and an extensive network of aquatic ecosystems amidst numerous drainage basins, rivers and lakes, Chile is an appealing destination for aquatic animal health researchers.

[Santiago](#) is a bustling, vibrant city with diverse cultural roots, exquisite museums and top-tier restaurants, bars and cafes. We hope you will join us in Santiago for a truly inspiring event.

See you in Santiago!

The Organizing Committee

Matt Griffin, College of Veterinary Medicine, Mississippi State University, USA.

Fernando Mardones, School of Veterinary Medicine, Pontifical Catholic University, Chile.

Esteban Soto, School of Veterinary Medicine, University of California - Davis, USA.

Natalia Zimin-Veselkoff, School of Veterinary Medicine, Pontifical Catholic University, Chile.

9th International Symposium on Aquatic Animal Health
September 4 - 8, 2022
Santiago, Chile

M.S. Position in Fish Health



A Master of Science (M.S) position is available at Auburn University. The incoming student will be a Graduate Research Assistant in Dr. Tim Bruce's Fish Health Lab within the School of Fisheries, Aquaculture and Aquatic Sciences (SFAAS). Research in the Bruce lab focuses on host-pathogen interactions in cultured fish species, nutritional aspects of fish health, and fish vaccinology/therapeutics.

Responsibilities and tasks

This M.S. project will involve experimental laboratory studies (~50%) and *in vivo* pathogen challenge trials (~50%) Specifically, this M.S. thesis research will examine mechanisms of co-infection in cultured, warmwater fish species. Overall, the student will be expected to conduct an independent research project followed by the writing and defense of a detailed thesis.

Qualifications

The lab team is looking for a motivated candidate who has:

- Bachelor's degree in the Biological Sciences
- Knowledge of aquaculture, microbiology, or fish health
- Proven ability to carry out goal-oriented work and fluent with data management systems (i.e. Excel, Word, statistical analysis)
- Lab competences in molecular biology (e.g., nucleic acid extraction, ELISA, gene expression (RT/qPCR), protein assays) and/or microbiology (e.g., culture, identification (PCR), microbe-related assays) would be considered an asset
- Fish husbandry experience will be an asset
- Ability to work in a team laboratory setting, as well as independently

Approval and Enrollment

This M.S. graduate appointment is subject to academic approval, and the candidate will be enrolled in the M.S. program within the School of Fisheries, Aquaculture and Aquatic Sciences (SFAAS). For information about our program please see: <http://sfaas.auburn.edu/programs-of-study/graduate-studies/>

Salary and appointment terms

This project will be carried out at the E.W. Shell Fisheries Center, which is situated in Auburn, Alabama (<http://sfaas.auburn.edu/e-w-shell-fisheries-center/>). The salary (\$17,000 + fringe benefits) and appointment terms (2 yrs.) are consistent with the current rules for MSc degree students; typically, a tuition waiver is provided. The student will begin coursework and research in May or August 2021.

Application

Please submit your application no later than **31 March 2021**. Applications must be e-mailed to tjb0089@auburn.edu as a **single .pdf file/packet** containing all materials to be given consideration. The .pdf packet must include:

- Cover letter motivating the application (background, interests, goals)
- Curriculum vitae
- Contact information (e-mail and phone numbers) for three references
- Unofficial transcripts and GRE scores (refer to: <https://www.ets.org/gre>)

Further information

For further information about the project and assistantship, please contact Dr. Bruce at tjb0089@auburn.edu. Information on Auburn University may be found here: <http://www.auburn.edu/main/welcome/index.php>



STATE OF WYOMING
invites applications for the position of:

HSSL11-2021-00350-Fish Health Program Manager-Laramie

SALARY: \$5,288.77 - \$6,815.43 Monthly
LOCATION: Laramie
OPENING DATE: 03/08/21
CLOSING DATE: 03/31/21 11:59 PM

DESCRIPTION AND FUNCTIONS:



GENERAL DESCRIPTION:

The Wyoming Game and Fish Department is seeking a Fish Health Program Manager located in Laramie, WY. This position plans, coordinates, and executes the fish disease prevention and control program for the Department while ensuring compliance with legal mandates related to fish health.

Human Resource Contact: [Laura Curtis](#) 307-777-4507

ESSENTIAL FUNCTIONS: The listed functions are illustrative only and are not intended to describe every function which may be performed at the job level.

- Plan and conduct regulatory fish health inspections and laboratory testing for commercial and state-owned aquaculture facilities, including supporting documentation or reports.
- Review fish health inspection reports for interstate movement of fish.
- Performs appropriate diagnostic tests to determine the cause of fish disease or death.
- Provides documentation and diagnostic reports to Game and Fish Department biologists and the general fishing public.
- Train and coordinate the aquatic animal health inspectors; in-lab teaching student interns; train aquaculture facility and fish managers on proper fish disease prevention and control strategies; work with fish health professionals from other states to determine the disease status of fish stocks and to establish standardized sampling protocols.
- Represents Wyoming Game and Fish Department interests at National fish health policy meetings and provides a source of contact for the general public concerning fish health

interests and concerns.

- Writes annual reports and has the opportunity to publish articles in magazine and technical journal articles.
- Maintains the fish health laboratory standard operating procedures to ensure compliance with American Fisheries Society guidelines, ANAB accreditation, and the appropriate Wyoming Game and Fish Department regulations.
- Represents Wyoming Game and Fish Department interests at National fish health policy meetings and provides a source of contact for the general public concerning fish health interests and concerns
- Continually research changing testing methods and protocols to ensure the fish health laboratory is as accurate and efficient as possible in its testing and reporting; procedure development requires identifying needed materials and equipment.

QUALIFICATIONS:

PREFERENCES/ AGENCY REQUIREMENTS:**

Preference will be given to those with a Master's Degree or a Bachelor of Science (wildlife, molecular biology, virology, pathophysiology, or related degree) and 4-6 years of related experience.

**Must be able to become a certified American Fisheries Society-Fish Health Section-Aquatic Animal Health Inspector.

**Must have a valid driver's license.

KNOWLEDGE:

- Knowledge of molecular biology.
- Knowledge of cultural techniques.
- Competency in bacterial identification methods, fish parasite identification, and cell culture maintenance and virology techniques.
- Competency in oral and written communication.
- Working knowledge of the use of DNA technology in general and specifically for DNA extraction and fish pathogen identification.
- Competency in the use of chemicals and hazardous materials.
- Working knowledge of Wyoming Chapter X regulations and the American Fisheries society Bluebook.

MINIMUM QUALIFICATIONS:

Education:

Bachelor's Degree (typically in Science)

Experience:

1-3 years of progressive work experience (typically in a medical or environmental laboratory) with acquired knowledge at the level of a Senior Laboratory Scientist

OR

Education & Experience Substitution:

4-7 years of progressive work experience (typically in a medical or environmental laboratory) with acquired knowledge at the level of a Senior Laboratory Scientist

Certificates, Licenses, Registrations:

None

NECESSARY SPECIAL REQUIREMENTS:

PHYSICAL WORKING CONDITIONS:

- Must be eligible for and receive an American Fisheries Society/Fish Health Section (AFS/FHS) Aquatic Animal Health Inspector certification within two years of employment.
- Must be able to safely drive state vehicles in adverse weather conditions.
- Must be willing to travel extensively during the spring months and as needed for inspections.

NOTES:

- FLSA: Exempt.
- Successful applicants for employment must pass a background check before appointment.
- Travel is required.

SUPPLEMENTAL INFORMATION:

040-Wyoming Game and Fish Department - Service Division

Click [here](#) to view the State of Wyoming Classification and Pay Structure.

URL: <http://agency.governmentjobs.com/wyoming/default.cfm>

The State of Wyoming is an Equal Opportunity Employer and actively supports the ADA and reasonably accommodates qualified applicants with disabilities.

Class Specifications are subject to change, please refer to the A & I HRD Website to ensure that you have the most recent version.

See Human Resource Contact Information in the General Description Section Statewide, WY 82002

Fax: (307) 777-6562

The State of Wyoming is an Equal Opportunity Employer and actively supports the ADA and reasonably accommodates qualified applicants with disabilities. No notice of eligibility will be sent to applicants who meet the minimum qualifications.

HSSL11-2021-00350-Fish Health Program Manager-Laramie Supplemental Questionnaire

- * 1. (AA) Which of the following best describes your highest completed level of education to date or within the next three (3 months)? (Transcripts may be required.)
- High School Diploma/GED/or Equivalent
 - Some college Coursework, No Degree Received
 - Associate's Degree
 - Associate's Degree and additional coursework
 - Bachelor's Degree
 - Bachelor's Degree and additional coursework
 - Master's Degree
 - Master's Degree and additional coursework
 - Doctorate Degree
 - Doctorate Degree and additional coursework
 - None of the Above
- * 2. (AA) Which of the following Quarter/Semester credit hours best describes your completed college education to date or within the next three (3 months)? (Transcripts may be required.)
- 45+ Quarter hours/30+ Semester hours
 - 90+ Quarter hours/60+ Semester hours
 - 136+ Quarter hours/91+ Semester hours
 - 180+ Quarter hours/120+ Semester hours
 - 225+ Quarter hours/150+Semester hours
 - N/A
- * 3. (HSSL11) Which of the following best describes your work experience as a Laboratory Scientist? Experience definition: (This experience includes, but may not be limited to, the following: work as a lab scientist in a medical or environmental laboratory)
- No relevant experience.
 - Less than One (1) year of relevant experience.
 - One (1) to less than three (3) years of relevant experience.
 - Three (3) to less than four (4) years of relevant experience.
 - Four (4) or more years of relevant experience.
4. (AA) Describe your relevant experience in the box below.
- * 5. Do you have a Master's Degree in Forensics or related field?
- Yes No
- * 6. Do you have a valid driver's license?
- Yes

No

- * 7. Do you have a Master's Degree or a Bachelor of Science (wildlife, molecular biology, virology, pathophysiology or related degree)?

Yes

No

- * 8. Are you able to become a certified American Fisheries Society-Fish Health Section-Aquatic Animal Health Inspector?

Yes

No

- * 9. Do you have a valid driver's license?

Yes

No

- * 10. (AA) VETERANS' PREFERENCE DISCLOSURE: PER WYOMING STATUTE, current employees of the State of Wyoming are not eligible for veterans' preference. If you are not a current employee of the State of Wyoming, to be eligible to receive veterans' preference you MUST have been a resident of the State of Wyoming for a period of one (1) year or more at any time prior to submitting this application. I have read and understand the veterans' preference disclosure.

Yes

No

I am not a veteran

11. (AA) VETERANS' PREFERENCE: If you are a war veteran as defined in section 101, Title 38, United States Code or are the surviving spouse of a war veteran who receives survivor benefits from the federal government based on the veteran's military service, and wish to claim veterans' preference, please attach the appropriate documentation substantiating your claim. Indicate below your appropriate veterans' preference status. By requesting veterans' preference, you are certifying that you meet the statutory requirements as described in the above disclosure.

Current State Employee

Veteran - DD214 Attached

Disabled Veteran (10% or more) - DD214 and Veteran's Disability Determination Attached

Surviving Spouse of a Deceased Veteran - DD214 and proof of Survivor Benefit Attached

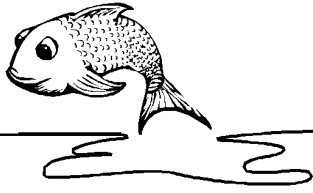
None of the above

- * 12. (AA) Please be advised that an incomplete application WILL NOT be considered for employment. An attached resume' is not required and is not an acceptable substitution for a completed application. Some State of Wyoming agencies use E-Verify, an Internet-based system, to confirm the eligibility of all newly hired employees to work in the United States. Learn more about E-Verify, including your rights and responsibilities at <https://www.uscis.gov/e-verify>. I have read and understand the above statement.

Yes

No

- * Required Question



Fish Health

Diagnostic & Research Laboratory

2252 Main St.

Sweet Home, OR 97386 ~ USA

Phone: (541) 401-4927

Email: johndcvitanich@gmail.com

John Cvitanich – Equipment for Sale

Centrifuge - Beckman refrigerated Accuspin FR, table top, serial #1290

- AH-4 horizontal rotar with many test tube & bottle carriers
- AA-10 fixed angle rotar (10 places for 50 ml tubes)
- AA-24 fixed angle rotar (24 places for 15 ml tubes)
- has new brushes and drive belt (with spares) - paid \$10,600 in 1985

Spectrophotometer - Bausch & Lomb/Milton Roy, Spectronic 21 UVD

- serial #0702258 - paid \$3,208 in 1986

Inverted Microscope - Zeiss IM, serial #061351, with camera attachment tube

- with KPL 10x widefield oculars
- with 3 objectives: Phase 2, Planachromat 16x; Phase 1, F Achromat 10x; Phase 1, F-LD Achromat 32x
- paid \$7,422 in 1986

Microscope camera - Zeiss M35 with Zeiss MC63 exposure control panel

- paid > \$1,000 in 1983

Mercury lamp system - for Zeiss Standard 16 microscope; serial #48538

- with 50W HBO power supply - paid \$2,497 in 1996

Microscope dual observation tube with pointer - Zeiss; paid \$1,208 in 1990

4 ft. Biosafety Hood – Labconco, Purifier Class II, with stand, serial #401365

- In perfect condition, used less than 40 hrs - paid \$6,194 in 1996

4 ft. Laminar flow Biological Hood – Bellco Glass/NuAire, with stand

- paid \$2,242 in 1996

4 ft. Chemical Fume Hood - Labconco, with flame suppressor

- with Labconco Acid storage cabinet base
- with epoxy sink and worksurface; with faucets - paid \$7,322 in 1996

Analytical Balance – Mettler AG-245; serial #1113330289
- paid \$3,388 in 1995

Top Loading Balance – OHAUS Brainweigh B-1500; serial #11576
- dual range: 150g/1,500g -paid \$1,039 in 1983

pH Meter - Beckman ALTEX pHI 70; serial #0076557 -paid \$1,448 in 1083
- with arm/stand for electrodes
- with Beckman Accumet pencil/gel electrode and temperature probe

Water Bath - Precision Model 282; serial #6990400909
- ambient to 99.9°C - paid \$521 in 1999

Flammables Cabinet - Labconco, 36" x 35" x 22" with stainless steel countertop
38" x 25" and 7" backsplash - paid \$1,365 in 1996

Ultrafiltration stirred cells - Amicon, 10 and 200 ml cells
- with magnetic stirring table MT-2 and gas pressure regulator
- paid ~\$1,350 in 1986

Incubator - REVCO, 21.5 cu.ft. refrigerated, model RI-23-1060-ABA,
- serial #R10E-203206-RE - paid \$4,338 in 1995

Incubator - American Scientific Products, model IS-61, serial #117012
- ambient to 60°C - paid \$1,200 in 1985

Incubator - Precision/GCA corp, model 818, serial #26AS-9
- 10° - 50°C - paid \$2,685 in 1985
- dual timers for programming both temperature and interior lighting

Sterilizer - Market Forge, model STM-E, 220 v, serial #056725 **SOLD**
- Received as trade for services in ~1999; I never used it as it was 220 v

Deionizer - Barnstead/Thermolyne, NANOpure Bioresearch
- model D-4751, wall mount - serial #7479064653
- mounted on wall but never used - paid \$2741 in 1996

Deionizer - Barnstead/Thermolyne, ½ B-pure wall mount, model D4505
- serial #583960807335
- with Pura-Lite water purity indicator, model E-3450
- never used - paid \$294 in 1997

Fiberoptics Halogen Lamp - Schott KL-1500 - paid \$600 in 1985

Hand-held UV lamp - Blak-Ray, long wave UV-366 nm, model UVL-56

Chromatography columns and accessories - Pharmacia - paid \$2,171

Electrophoresis Equipment - BioRad - paid \$6,449 in 1987
- Bio-Phoresis horizontal electrophoresis cell - serial #134-BR-1782
- Mini-Protein II electrophoresis cell -serial #125-BR-5453
- Computer controlled electrophoresis power supply, model 3000-Xi

6-Place Stir plate - Variomag - serial #0101621 - paid \$1,248 in 1997

Magnetic stir plates - paid ~\$440
- Corning model PC-310
- Sybron/Thermolyne Nuova II, model S-18525

Magnetic Stir/Hot plate - paid ~\$250
- Corning model PC-320 - serial #03005964

Vortex Mixer - American Scientific Products -serial #002845

Commercial Blender - VITA-MIX, 2liter - paid \$405 in 1996

Rotary Auto-plater - Lab-Line model 1580 - serial #0576

Vacuum Pump - GAST - paid \$200 in 1986

8 ft bank of cabinets with 9 ft formica countertop with mahogany trim
- paid \$2,200 in 1997

12 ft formica countertop with mahogany trim and (3) 24" x 36" x 22" metal base cabinets -paid \$1,850 in 1997

Safety Drench Shower – HAWS - paid \$318

Miscellaneous

- slide boxes, trays, mailers
- test tube racks, assorted
- hemacytometers (2)
- Petroff-Hausser counting chamber
- WBC differential counters
- tally counter
- agglutination slides
- teflon stir bars, assorted
- glassware, assorted
- stainless steel rectangular pipet and petri dish canisters
- ring stands with various clamps, holders
- dissecting instruments, assorted
- 20 liter Nalgene carboy with spigot





