

Fish Health Section



FHS NEWS – July 2021

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

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

Fish Health Section Twitter feed: @AFSFishHealth

New President's Message – see attached .pdf

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@odfw.oregon.gov 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.

Summer Seminar Series

Don't forget to participate in the AFS-FHS Student Summer Seminar Series! Graduate students and post-docs do not get many chances to network or share their research. With the cancellation of the EFHW, AFS-FHS, WFDW and other scientific meetings these opportunities have become even more limited. This summer seminar series will provide an avenue for young scientists to get their names out there, but also give the rest of us a chance to stay connected. You can find the Seminar Schedule and archived presentations/abstracts here: [Seminar calendar and Zoom access information](#)

This is a low-stakes forum for students, post-docs and early career folks to introduce themselves to a mix of lab groups from across the country and show off the fruits of their labors. Please feel free to forward these announcements to your friends and encourage them to sign up for the listserv: [AFS-FHS Student Seminar Series Listserv](#)

Presentations will take place on Friday afternoons from 12-1 pm Central time.

MEETINGS, WORKSHOPS AND COURSES

Health and Colony Management of Laboratory Fish 2021

MDI Biological Laboratory, Salisbury Cove, Maine

September 26 – October 1, 2021

Link: <https://mdibl.org/course/health-and-colony-management-of-laboratory-fish-2021/>

A short course for principal investigators, technicians, trainees, core managers, veterinarians, and veterinary technicians who utilize or plan to utilize fish models in laboratory research. 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.

9th International Symposium on Aquatic Animal Health (ISAAH)

Santiago, Chile

September 4-8, 2022

See attached pdf for more info.

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

Research Parasitologist

USDA-ARS, Aquatic Animal Health Research Unit

Auburn, Alabama

Closes 8/2/21

Link: <https://www.usajobs.gov/GetJob/ViewDetails/606363300>

Research objectives include the investigation of host pathophysiology and performance following parasitic insult and development of methods for the control and prevention of parasitic diseases in aquaculture.

Postdoc Research Fellowship in Immunology

USDA-ARS Fish Health Unit at the National Center for Cool and Cold Water Aquaculture (NCCCWA)

Leetown, WV

Application Deadline:10/31/21

The mission of the NCCCWA is to enhance the nation's aquaculture production by developing improved germplasm and technologies that increase farm efficiency, product quality, and environmental sustainability. Research focuses primarily on rainbow trout and encompasses genetics, genomics, physiology, aquatic animal health, and aquaculture engineering.

The selected participant will conduct immunological research evaluating genetic lines of disease resistant and susceptible rainbow trout. This will include determining mechanisms of innate immunity and the impact of selective breeding on commensal microbiota and vaccine response. The project will also include identifying how reuse water affects immunological function and identifying precision interventions to enhance health during grow-out.

See attached .pdf for more information.

Postdoc Fellowship in Molecular Microbiology

USDA-ARS Fish Health Unit at the National Center for Cool and Cold Water Aquaculture (NCCCWA)

Leetown, WV

Application Deadline: 9/9/21

The mission of the NCCCWA is to enhance the nation's aquaculture production by developing improved germplasm and technologies that increase farm efficiency, product quality, and environmental sustainability. Research focuses primarily on rainbow trout and encompasses genetics, genomics, physiology, aquatic animal health, and aquaculture engineering.

The selected participant will conduct microbiological research supporting the development of novel strategies that improve the health of farmed fish. This will include evaluating the utility of bacteriophage for precision biocontrol of pathogenic or nuisance bacteria in aquaculture systems, characterization of emerging pathogens of farmed fish, and the development and evaluation of vaccines.

See attached .pdf for more information.

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

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](#).

NOAA Fisheries Announces the 2022 Saltonstall-Kennedy Grant Competition

The goal of the [Saltonstall-Kennedy Grant Program](#) is to fund projects that address the needs of fishing communities, optimize economic benefits by building and maintaining sustainable fisheries, and increase other opportunities to keep working waterfronts viable. Aquaculture-focused projects are encouraged to apply. The FY22 solicitation seeks applications that fall into one of two priorities:

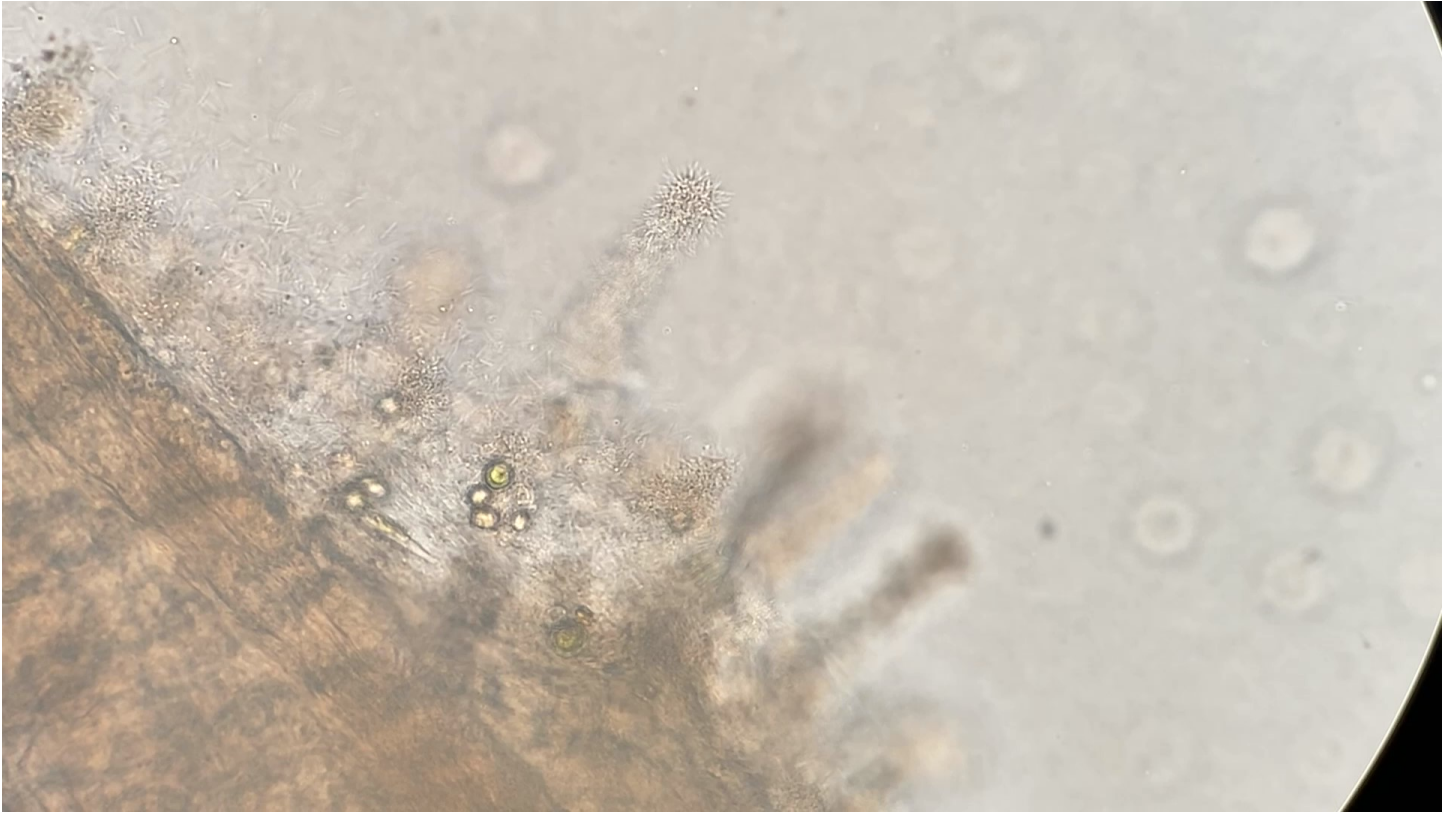
- Promotion, Development, and Marketing.
- Science or Technology that Promotes Sustainable U.S. Seafood Production and Harvesting.

This year's solicitation consists of two separate submission processes. All interested applicants must submit a 2 page pre-proposal through the Notice of Funding Opportunity (NOFO) posted at [Grants.gov](#). Pre-proposals must be received at Grants.gov, postmarked, or provided to a delivery service by 11:59 pm, Eastern Time, **August 16, 2021**. Use of Grants.gov is preferred.

It is important to note that under this one NOFO there are two competition links. Please be sure to submit pre-proposals to the "Pre-Proposals FY22 Saltonstall-Kennedy" link within the dates specified in this NOFO. Full proposals will be submitted under the "Full Proposals FY22 Saltonstall-Kennedy" link prior to the closing date of **November 29, 2021**. Be sure to read the NOFO and follow the directions and formatting requirements closely.

Learn more about the [Saltonstall-Kennedy Grant Program](#) and how to apply for the [FY22 Competition](#).

EDITOR'S RANDOM PICS



Flavobacterium columnare on adult spring Chinook gills, Deschutes River, OR, June 2021.

Opportunity Title: USDA-ARS Postdoctoral Fellowship in Molecular Microbiology

Opportunity Reference Code: USDA-ARS-2021-0186



Organization

U.S. Department of Agriculture (USDA)

Reference Code

USDA-ARS-2021-0186

How to Apply

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application consists of:

- An application
- Transcripts – [Click here for detailed information about acceptable transcripts](#)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional recommendations

All documents must be in English or include an official English translation.

Application Deadline

9/9/2021 3:00:00 PM Eastern Time Zone

Description

***Applications are reviewed on a rolling-basis and this posting could close before the deadline.**

ARS Office/Lab and Location: A postdoctoral research opportunity is available with the Fish Health Unit at the National Center for Cool and Cold Water Aquaculture (NCCCWA), located in Leetown, West Virginia. The mission of the NCCCWA is to enhance the nation's aquaculture production by developing improved germplasm and technologies that increase farm efficiency, product quality, and environmental sustainability. Research focuses primarily on rainbow trout and encompasses genetics, genomics, physiology, aquatic animal health, and aquaculture engineering.

The Agricultural Research Service (ARS) is the U.S. Department of Agriculture's chief scientific in-house research agency with a mission to find solutions to agricultural problems that affect Americans every day from field to table. ARS will deliver cutting-edge, scientific tools and innovative solutions for American farmers, producers, industry, and communities to support the nourishment and well-being of all people; sustain our nation's agroecosystems and natural resources; and ensure the economic competitiveness and excellence of our agriculture. The vision the agency is to provide global leadership in agricultural discoveries through scientific excellence.

Research Project: The selected participant will conduct microbiological research supporting the development of novel strategies that improve the health of farmed fish. This will include evaluating the utility of bacteriophage for precision biocontrol of pathogenic or nuisance bacteria in aquaculture systems, characterization of emerging pathogens of farmed fish, and the development and evaluation of vaccines.

Learning Objectives: The participant will gain useful experience designing and conducting experiments in collaboration with a team of microbiologists, immunologists, and veterinarians. The participant will be trained in an array of methodologies and technologies to fulfill the objectives of the project including microbiology, fish disease modeling, microbial genomics, metagenomics, biochemistry, microscopy, and molecular biology.

Mentor(s): The mentor for this opportunity is Timothy Welch (tim.welch@usda.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: October 2021. Start date is flexible and will depend on a variety of factors.

Appointment Length: The appointment will initially be for one year, but may be renewed upon recommendation of ARS and is contingent on the availability of funds.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience.

Opportunity Title: USDA-ARS Postdoctoral Fellowship in Molecular Microbiology

Opportunity Reference Code: USDA-ARS-2021-0186

Citizenship Requirements: This opportunity is available to U.S. citizens only.

ORISE Information: This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and ARS. Participants do not become employees of USDA, ARS, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.







Questions: Please visit our [Program Website](#). After reading, if you have additional questions about the application process please email USDA-ARS@orau.org and include the reference code for this opportunity.

Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields or are currently pursuing the degree and will reach completion by the start date of the appointment. Degree must have been received within five years of the appointment start date.

Knowledge, skills, and experience in one or more of the following areas is preferred: fish health and disease modeling, bacteriology, molecular biology, immunological assays, genomics, and metagenomics.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (1 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (9 )
 - **Life Health and Medical Sciences** (20 )
 - **Mathematics and Statistics** (1 )
 - **Other Physical Sciences** (1 )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

Opportunity Title: USDA-ARS Postdoctoral Research Fellowship in Immunology

Opportunity Reference Code: USDA-ARS-2021-0181



Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-2021-0181

How to Apply *Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application consists of:

- An application
- Transcripts – [Click here for detailed information about acceptable transcripts](#)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional recommendations

All documents must be in English or include an official English translation.

Application Deadline 10/31/2021 3:00:00 PM Eastern Time Zone

Description *Applications are reviewed on a rolling-basis and this posting could close before the deadline.

ARS Office/Lab and Location: A postdoctoral research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), National Center for Cool and Cold Water Aquaculture (NCCCWA), Fish Health Unit located in Leetown, West Virginia. The mission of the NCCCWA is to enhance the nation's aquaculture production by developing improved germplasm and technologies that increase farm efficiency, product quality, and environmental sustainability. Research focuses primarily on rainbow trout and encompasses genetics, genomics, physiology, aquatic animal health, and aquaculture engineering.

The Agricultural Research Service (ARS) is the U.S. Department of Agriculture's chief scientific in-house research agency with a mission to find solutions to agricultural problems that affect Americans every day from field to table. ARS will deliver cutting-edge, scientific tools and innovative solutions for American farmers, producers, industry, and communities to support the nourishment and well-being of all people; sustain our nation's agroecosystems and natural resources; and ensure the economic competitiveness and excellence of our agriculture. The vision the agency is to provide global leadership in agricultural discoveries through scientific excellence.

Research Project: The selected participant will conduct immunological research evaluating genetic lines of disease resistant and susceptible rainbow trout. This will include determining mechanisms of innate immunity and the impact of selective breeding on commensal microbiota and vaccine response. The project will also include identifying how reuse water affects immunological function and identifying precision interventions to enhance health during grow-out.

Learning Objectives: The participant will gain useful experience designing and conducting experiments in collaboration with a team of immunologists, microbiologists, and veterinarians. The participant will be trained in an array of methodologies and technologies to fulfil the objectives of the project including molecular immunology, single cell sequencing, computational biology, machine learning, microbial genomics, and metagenomics. The fellow will have an opportunity to present their data in published manuscripts and at national and international meetings.

Mentor(s): The mentor for this opportunity is Greg Wiens (greg.wiens@usda.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: Fall 2021. Start date is flexible and will depend on a variety of factors.

Appointment Length: The appointment will initially be for one year, but may be renewed upon recommendation of ARS and is contingent on the availability of funds.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience.

Opportunity Title: USDA-ARS Postdoctoral Research Fellowship in Immunology

Opportunity Reference Code: USDA-ARS-2021-0181

Citizenship Requirements: This opportunity is available to U.S. citizens only.

ORISE Information: This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and ARS. Participants do not become employees of USDA, ARS, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

Questions: Please visit our [Program Website](#). After reading, if you have additional questions about the application process please email USDA-ARS@orau.org and include the reference code for this opportunity.








Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields or are currently pursuing the degree and will reach completion by the start date of the appointment. Degree must have been received within five years of the appointment start date.

Knowledge, skills, and experience in one or more of the following areas is preferred: fish health, immunology, computational biology, genomics, and metagenomics.

This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, genetic information, sexual orientation, or covered veteran's status.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (3 )
 - **Engineering** (5 )
 - **Environmental and Marine Sciences** (10 )
 - **Life Health and Medical Sciences** (29 )
 - **Mathematics and Statistics** (1 )
 - **Nanotechnology** (1 )
 - **Other Physical Sciences** (1 )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).



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

AFS Fish Health Section Committee Membership

July 27, 2021

[Elected members are confirmed (new members **bolded**);
some ad hoc members are not yet confirmed]

Committee	Position	2021-2022 Members
Executive Committee [elected]	President President Elect Vice President Secretary-Treasurer Past President TS Committee Chair PS Committee Chair	Gary Marty Anita Kelly Wade Cavender Carolyn Richards Thomas Loch Kathleen Hartman Brandon Taro
Nominating and Balloting Committee [elected]	Chair (3rd year) Member (2nd year) Member (1st year) Member (Past President)	Jayde Ferguson Nick Phelps Tim Bruce Thomas Loch
Professional Standards Committee [elected]	Chair (3rd year) Member (2nd year) Member (1st year) Secretary to Chair [optional]	Brandon Taro Joe Marcino Matt Stinson Joe Marcino
Policy/Position Development Committee [elected]	Chair (President Elect) Member (VP) Member (3rd year) Member (2nd year) Member (1st year)	Anita Kelly Wade Cavender Gael Kurath Jesse Trushenski Janet Whaley
Technical Standards Committee [elected]	Chair (3rd year) Member (2nd year) Member (1st year)	Kathleen Hartman Stephen Reichley Amy Long
Handbook Revision and Oversight Committee (HROC) [FHS participants are elected]	Co-Chair (FHS-TSC year 2) Past chair (FHS-TSC year 3) FHS-TSC - year 1 FHS President (Ex-officio)	Stephen Reichley Kathleen Hartman Amy Long Gary Marty
Archives Committee [ad hoc; 3-yr term]	Member [Chair ?] Member Member	Barb Johnston Matt Stinson Sue Marcquenski
Awards Committee [ad hoc; 3-yr term]	Member [Chair ?] Member Member	Nicole Nietlisbach Isaac Standish Luke Iwanowicz
Continuing Education Committee [ad hoc; min 2-yr term, but no limit]	Chair Member Member Member	George Sanders Tom Waltzek Mark Fast Sascha Hallet

Committee	Position	2021-2022 Members
International Meeting Oversight Committee [ad hoc; no term limit]	Chair Member Member	Dave Groman Andy Kane Jerri Bartholomew
Section Communications [Ad hoc; no term limit]	Chair Member Member	Stacy Strickland Benjamin Americus Amber Johnston
Fish Health Lab QA/QC [Ad hoc; perpetuates by internal nominations and FHS president notification; no term limits]	Chair Exec. Secretary Member Member Member Member Member Member Member	Wade Cavender Aimee Reed Chris Wilson Joe Marcino Joel Bader Janet Warg Hui-Min Hsu Victoria Vincent Huseyin Kucuktas Rick Cordes
Recruitment and Student Involvement [Ad hoc; no term limit]	Chair Member Member	Nicholas Phelps Megan Shavalier Matt Griffin
Extramural Funding Committee [Ad hoc; committee will elect chair]	Member Member Member Member Member Member Member Member	Jesse Trushenski Nicholas Phelps Tim Bruce Ken Cain Jan Lovy Joel Bader Janet Warg (Advisory) Marcia House Thomas Loch
Long-Range Planning Committee [Ad hoc; committee will elect chair]	Member Member Member Member Member Member Member Member Member	Stacy Strickland Myron Kebus Andy Goodwin Jim Winton Courtney Harrison Taylor Heckman Esteban Soto Nicole Nietlisbach Ben LaFrentz Thomas Loch