



The American Fisheries Society Genetics Section Newsletter

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President's Message

With the annual meeting in Portland just around the corner (August 16-20) the section will soon be recognizing some of our young and not so young members when we present the James E. Wright graduate award, the Stevan Phelps memorial award and induct new members into our Hall of Excellence. The two awards and the Hall of Excellence not only highlight our annual



Dr. Jeffrey Olsen, AFSGS president.

business meeting but also strengthen and maintain membership. With that in mind the executive committee is proposing a new award, the Genetics Section Early Career Award. Briefly, the Early Career Award is intended to recognize the contribution of young researchers (within five years of having completed graduate training) in the field of fisheries genetics. You can find more detail on the Early Career Award in this newsletter in the segment "Bylaws Amendments". Here I would like to recognize Ben Hecht and Scott Pavey for contributing ideas to attract new members, particularly student and young professionals. I would also like to recognize and thank Helen Neville, the membership committee chair, for presenting the idea to the executive committee and drafting the proposal.

I encourage you to read the segment "Bylaws Amendments". Members will have the opportunity to vote on these amendments electronically approximately two weeks after the annual meeting in Portland. Until then, let me know if you have any questions, comments, or suggestions. We will also discuss the amendments during our annual business meeting in Portland.

Just a reminder that the Genetics Section is sponsoring a day-long symposium (August 20: 8:00a-5:20p) at the AFS meeting in Portland titled "Genomics of Adaptation in Natural Populations". In addition, there are other genetics-themed symposia and poster sessions including "Effects of Hatchery Fish on Wild Populations of Pacific Salmon and Steelhead: 20 Years Later, What do We Really Know?", "Interactions between Hatchery and Wild Salmonids – International Understanding of the Risks, Benefits, and Options for Management", *continued on page 9*

Meeting Announcement



Socials

Welcome Networking Event

Sunday August 16th 6:30pm

Hilton Hotel Downtown, Galleria

Tradeshow and Networking Event

Monday August 17th 6:00pm

Oregon Convention Center, Exhibit Hall B & C

Grand Networking Event

Wednesday August 19th 6:00pm

South Park Blocks

Closing Networking Event

Thursday August 20th 5:30pm

Hilton Hotel Downtown, Pavilion East



The annual meeting is just around the corner! Here are some key dates and times so you don't miss out on any of the fun.

Fun with Like-Minded Geneticists!

Genetics Section Business Meeting

Monday August 17th, 5:30pm

Oregon Convention Center E-147

Genetics Poster Session

Monday August 17th, 6:00pm

Oregon Convention Center, Exhibit Hall B & C

Session: Use of Genetics Analyses to Assess Fish Population Characteristics

Tuesday August 18th, 8:00am-3:00pm

Oregon Convention Center A-108

Workshop: Utilizing Genetics to Accomplish Conservation Goals in Hatcheries

Thursday August 20th

Oregon Convention Center A-108

Workshop: Genomics of Adaptation in Natural Populations

Thursday August 20th

Oregon Convention Center D-139

Genetics Social

Tuesday August 18th, 5:30pm

Doug Fir Restaurant

AFS Workshops

Utilizing Genetics to Accomplish Conservation Goals in Hatcheries

August 20th 145th Annual AFS Meeting
Portland, Oregon

Conservation hatcheries are generally founded in order to mitigate the loss of wild stocks. However there has been much debate over whether or not the demographic and genetic consequences of using a conservation hatchery outweighs the potential benefits, as hatchery personnel are inevitably required to balance often disparate goals such as production and domestication. In order to reduce the risk of negative consequences, conservation hatcheries often employ genetic management, with the goal of reducing 1) inbreeding within the hatchery, 2) divergence from wild population, and 3) negative genetic effects on the wild population if hatchery fish are released into the wild. This symposium aims to discuss different genetic management techniques in different hatchery settings, and how genetic management has been applied to and/or affected hatchery and wild populations. We encourage discussion of both failures and successes, as well as discussion of genetic management of non-salmonids. Tentative speakers:

- Andrea Schreier - "The importance of post-release genetic monitoring in conservation aquaculture"
- Mandi Finger "Genetic Consequences of 7 years of delta smelt genetic management in a conservation hatchery"
- Gregory Moyer "Developing a translocation risk-assessment framework for aquatic organisms of the southeastern United States"
- Chris Hollenbeck "Genomics studies of restoration enhancement of red drum (*Sciaenops ocellatus*) in Texas bays and estuaries"
- Stewart Grant "Responsible genetic approach to stock enhancements, stock restorations and sea ranching of marine fishes and invertebrates"

Organizer: *Mandi Finger*

Genomics of Adaptation in Natural Populations

August 20th 145th Annual AFS Meeting
Portland, Oregon

Rapid advances in genomics are providing unprecedented opportunities to improve our understanding of the amount, distribution and functional significance of genetic variation in natural populations and its dynamics over ecologically relevant time. At the same time that analyses on a genomic scale are becoming commonplace, complete genome sequence is increasingly available for many species, facilitating discovery of loci associated with adaptation and, at times, also the causal variants shaping adaptive phenotypes. There is great promise for identifying adaptively important genes with genomic techniques, but challenges still exist in treating confounding effects of environmental heterogeneity, genetic drift, and gene by environment interactions. In this symposium we will examine our current knowledge of functional genomic variation, identify gaps in our understanding, and explore future implications of this state of knowledge for conservation of fishes. The contributors will also explore the promise as well as the limits of genomics as applied to conservation and management of fishes around the globe. In doing so we seek to identify current and future impacts of genomics in documenting and helping to stem the widespread loss of genetic and genetically based phenotypic diversity in the wild.

Moderators: *Garrett McKinney , Morten Limborg and Jeff Olsen*

Chair: *Jim Seeb*

Organizers: *Garrett McKinney , Morten Limborg , Jim Seeb , Lisa Seeb and Jeff Olsen*



Workshops

Using Genetics to Improve Sturgeon and Paddlefish Management and Conservation

Instructors: Andrea Schreier¹, Amy Welsh², Kim Scribner³, and Jeanette Kanefsky³

¹University of California, Davis, ²West Virginia University, ³Michigan State University

Monday, October 19th, 1:00-5:00,

Oshkosh Convention Center

Cost: \$50 USD

In this workshop, we will introduce participants to basic concepts in fisheries genetics and discuss complications to genetic analysis introduced by the polyploid nature of sturgeon. We will familiarize participants with the components of the genetic toolbox available for sturgeon and describe new tools under development due to advancements in next generation sequencing technology. Throughout the workshop, we will provide many practical examples of how genetic tools have been applied to sturgeon management and conservation. Finally, participants will break into small groups and be presented with a series of four case studies that will each include background information, a research question, and results from genetic analyses performed to answer that question. Using the skills they've gained in the workshop, participants will work together to interpret the genetic results and develop management recommendations to share with other workshop attendees.

We would like the material covered in this workshop to be relevant to the specific questions or concerns of participants. Therefore, we encourage participants to email Andrea Schreier (amdrauch@ucdavis.edu) by August 31 to suggest topics or questions they would like to see covered. For more information visit: <http://www.nasps-sturgeon.org/conferences/north-american-conference-announcements.aspx>

Larval dispersal and population connectivity - genetic approaches to ecological problems

Organizer: Lorenz Hauser

Keynote speaker: Serge Planes - "What have we learnt regarding connectivity from parentage analysis".

39th Annual Larval Fish Conference
17th – 12th July Vienna, Austria

Much of our knowledge on population connectivity in fishes with pelagic larvae stems from genetic approaches, either by indirectly inferring gene flow among populations or by directly estimating dispersal by parentage or population assignment. Our understanding of larval connectivity and its relationship with physical, biological and genetic factors has so greatly improved in recent years, allowing wider application of results in conservation and management. Nevertheless, much remains unknown, for example, correspondence of spatial and temporal scales in ecology and evolution, and the fate of dispersing individuals. In this theme session, we will discuss potential and challenges of genetic approaches to the investigation of larval dispersal and ecology, and especially opportunities arising from recently developed high-throughput genetic technologies. We particularly encourage empirical studies directly on larval fish, though population genetic studies are also welcome.

For more information visit:

http://www.larvalfishcon.org/Conf_home.asp?ConferenceCode=39th



Calendar

JULY 2015

6th – 8th Workshop. Marine Resources Population Dynamics Summer Program. University of Florida and Florida Keys.

12th-16th Meeting. Annual SMBE Meeting. Hofburg Palace, Vienna, Austria.

12th-17th Meeting. 39th Annual Larval Fish Conference. Vienna, Austria.

15th-19th Meeting. ASIH Annual Meeting. Reno, NV.

26th – 31st Meeting. World of Trout Congress. Bozeman, MT.

AUGUST 2015

1st Talk abstract and fellowship deadline. Mobile genetic elements: in silico, in vitro, in vivo. Marine Biological Laboratory, Woods Hole, MA.

15th Poster abstract deadline. Mobile genetic elements: in silico, in vitro, in vivo. Marine Biological Laboratory, Woods Hole, MA.

15th Registration deadline. 17th International Conference on 'Diseases of Fish and Shellfish'. Las Palmas de Gran Canaria, Spain.

16th-20th Meeting. 145th National American Fisheries Society. Portland, Oregon.

SEPTEMBER 2015

3rd – 5th Meeting. Mobile genetic elements: in silico, in vitro, in vivo. Marine Biological Laboratory, Woods Hole, MA.

7th – 11th Meeting. 17th International Conference on 'Diseases of Fish and Shellfish'. Las Palmas de Gran Canaria, Spain.

15th Application due. George Burlew Scholarship. Manasquan River Marlin & Tuna Club.

20th – 22nd Meeting. 41st Annual meeting of the Atlantic International Chapter of the American Fisheries Society. Cap-pele, New Brunswick, Canada.

21st – 24th Meeting. Sixth Offshore Mariculture Conference. Ensenada, Baja California, Mexico.

OCTOBER 2015

19th – 22nd Meeting. Annual Meeting of North American Sturgeon and Paddlefish Society. Oshkosh, Wisconsin.

NOVEMBER 2015

8th -12th Meeting. 23rd Biennial CERF conference: Grand Challenges in Coastal & Estuarine Science: Securing Our Future. Portland, OR.

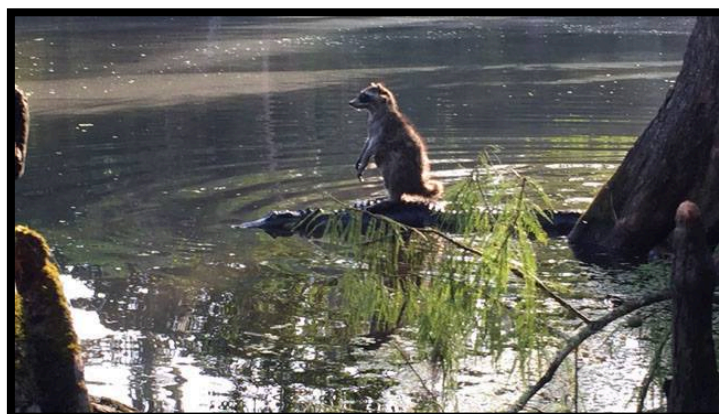
JANUARY 2016

3rd – 7th Meeting. SICB Annual Meeting. Portland, OR.

Please send information on symposia, jobs, articles, and calendar events to Joy.Young@myfwc.com to see it published in the next newsletter!

Comic

Cuts in travel budgets force scientists to become creative with transportation to AFS



Ocala National Forrestr, Florida. Photo by Richard Jones

Publications

Genetic Analysis of the American Eel Helps Explain Its Decline

The American eel has been a concern for the U.S. Fish and Wildlife Service since 2007, when it was first considered for, but failed to receive, Endangered Species Act protection. The numbers of these slender, slimy, ancient fish in freshwater areas have been decreasing rapidly due to dams, pollution, and overfishing, but scientists have been puzzled as to why the fish can't recolonize. Now, a new look at eel genetics published on May 28 in *Current Biology* finds that there are differences between eels that feed in freshwater and eels that feed in brackish environments that were previously thought to be genetically interchangeable.

Both freshwater and brackish American eels are the same species, but they vary in size and have very different growth rates and life spans. Once a year, sexually mature eels from both groups migrate thousands of miles to spawn in the Sargasso Sea (located in the North Atlantic Ocean east of Bermuda). The offspring are carried off by the current to their new homes. It's been thought that young American eels can detect whether they've ended up in brackish or freshwater habitats and acclimate accordingly. But this new study suggests that eels are predisposed to survive in these environments, depending on what genes they inherited.

"People have considered these differences in growth and age to be 100 percent due to phenotypic plasticity, independent of the genotype," says lead author Scott Pavey, a postdoctoral fellow at the Integrated Biology Institute of Laval University in Quebec, Canada. "But what we found is that genes affect whether an eel can survive freshwater or brackish environments." This helps explain why some conservation efforts to preserve the freshwater eel haven't been successful, as more plentiful brackish eels cannot easily change their traits to survive in freshwater environments.

Pavey, in collaboration with ecologist Louis Bernatchez and colleagues, used new sequencing

technologies to screen the eel genome in 45,000 places. The analysis identified 99 genes that differ between freshwater and brackish eels, including those associated with growth rate, heart development, and smell. It's unknown whether this type of genetic differentiation exists in other, non-eel marine species with high levels of phenotypic plasticity.

The question remains, though, as to why eels would have such a strange approach to survival. The fish is considered evolutionarily ancient, so something they must be doing something right. "It's a different strategy, a kind of hedging your bets," speculates Pavey.

His team is now working to publish and release the entire genome of the eel. This will provide an important tool for other researchers to conduct similar studies on different aspects of eel ecology.

Current Biology, Pavey et al.: "RAD-sequencing highlights polygenic discrimination of habitat ecotypes in the panmictic American Eel" <http://dx.doi.org/10.1016/j.cub.2015.04.062>

Current Biology, published by Cell Press, is a bimonthly journal that features papers across all areas of biology. *Current Biology* strives to foster communication across fields of biology, both by publishing important findings of general interest and through highly accessible front matter for non-specialists. For more information, please visit <http://www.cell.com/current-biology>. To receive media alerts for *Current Biology* or other Cell Press journals, contact press@cell.com.

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Jobs

Graduate positions

MSc. Position in Ecological Genomics at University of New Brunswick Saint John: Striped Bass Adaptation (Winter or Summer 2016). A position is available for a Master's of Science student to participate in an integrated Striped Bass genomics research program. The student will use ecologically divergent populations and full-genome re-sequencing to determine the genetic basis of adaptation. The student will be part of a lab of a new Canada Research Chair in Aquatic Molecular Ecology and Ecological Genomics at the University of New Brunswick in Saint John.

Funding is available for a stipend or top-up bonus for students with funding. The student will use state-of-the-art laboratory equipment, including robotics, to streamline repetitive tasks and will have priority access to a high-powered computer with 1.5 TB of RAM for bioinformatics. The lab is located at the Canadian Rivers Institute (www.canadianriversinstitute.ca).

Suitable candidates will have a solid quantitative background with experience in genetics and genomics lab work and/or bioinformatics. Candidates must have a positive attitude and willingness to work with a team. Experience in programming with R, Python or Perl computer languages is a plus.

The position will begin in the winter or summer term of 2016. Submit a Cover Letter, CV, contact information for three references and unofficial transcripts that include course names to Dr. Scott Pavey (scottapavey@gmail.com). Application packages will be accepted until the position is filled.

Fish Hatchery Management Intern. Herrmann's Fish Farm, Robstown, Texas. **Application deadline:** 31 Augst 2015. **Salary:** Depends of qualifications. **Qualifications:** Hardworking, willing to learn. **To apply:** Send resume to Kathy Herrmann kathyherrmann@herrmannsfishfarm.com

Ph.D. position in Population Genetics. Baltic Sea Marine Biodiversity project and Lakes Baevervattnen long term genetic monitoring of brown trout

populations, Department of Zoology at Stockholm University. **Application deadline:** 30th July 2015. **Position summary:** We announce a four-year full time graduate student position with a focus on conservation genetics issues in the aquatic environments of the Baltic Sea and freshwater mountain lakes of central Sweden. We look for a student who is highly motivated and interested in theoretical and empirical population genetics but also in conservation issues and how genetics information can be used in conservation management. **To apply:** Read more about the department: www.zoologi.su.se/en/index.php Stockholm University: <http://www.su.se/english/> **Contact:** Prof. Linda Laikre linda.laikre@popgen.su.se and Eeva Jansson eeva.jansson@zoologi.su.se (we will both supervise this project).

Ph.D. student position in evolutionary fish ecology. Department of Biology, University of Eastern Finland. **Salary:** 2000 – 35000 eur /mon. **Start:** 1st Sept 2015. **Position summary:** PhD work will take place in our new project that is based on a large breeding experiment, and in which we study the genetic basis of vulnerability to angling, life-history variation and trait co-variation (pace-of-life syndromes) especially with respect to migration behaviour in brown trout. The PhD student is expected to have a background in genetics and to have basic knowledge on next generation sequencing techniques and associated bioinformatics methods. The work will require occasional visits to and a 2-12 month stay at the Department of Biology, University of Turku, but basic work such as DNA extraction can be conducted at the local department in Joensuu. The recruited PhD-student would join an appropriate graduate school of University of Eastern Finland and be supervised by Dr. Anssi Vainikka (Joensuu), Dr. Silva Uusi Heikkil (Turku) and Prof. Robert Arlinghaus (Berlin, Germany). **To apply:** Please send your application together with your CV to anssi.vainikka@uef.fi by 30.7.2015. You can also send a voluntary recommendation letter separately to the e-mail address above from one referee.

Jobs continued

Professional position

Staff scientist in genetics and molecular biology. Jones Lab, Max Planck Institute, Tuebingen, Germany.

Position summary: You will be a central team member working closely with postdocs and PhD students on molecular genetic, transgenic, and genomic projects. You will be responsible for running functional genetic assays (cloning, microinjection and fish embryonic phenotyping) and preparation of genomic DNA, RNA and ChIPSeq libraries. In addition to your own research role, you will share lab management duties that include ordering and equipment maintenance with other existing lab members. **Requirements:** You should hold a Masters, equivalent degree or higher in the areas of genetics, molecular biology. We are looking for someone with a strong track-record and demonstrated research experience and training particularly in genetics and molecular biology. Passion for research, team spirit and enthusiasm are essential. English is required.

Salary: The position is available for an initial 2 years with the possibility of extension based on performance. Salary and benefits are according to the German public service pay scale (TVöD Bund up to and including E13) and are commensurate with training and experience. **To apply:** Consideration of applications will begin on July 20th 2015, and will remain open until filled. Please send your application with 1. a statement of research interests and why you have applied for this position, 2. your CV, and 3. three reference letters to Dr Felicity Jones at fcjones@tuebingen.mpg.de. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply. The Max-Planck society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. For more information please see: fml.tuebingen.mpg.de/jones-group/open-positions.

Animal Husbandry Technician- Fish. Max Planck Society, Tuebingen, Germany. **Application deadline:** 10th July 2015. **Salary:** 2 years, based on experience. **Position summary:** You will be responsible for the feeding, care, husbandry and maintenance of threespine stickleback fish in a state-of-the-art aquarium facility. You will be actively involved in the day-to-day running of the facility including the administering of food, monitoring of animal health, water chemistry changes, aquarium cleaning, and record keeping in a husbandry database, and technical maintenance of the aquarium facility. Basic knowledge and experience working with fish husbandry would be advantageous. As we study natural populations of sticklebacks, your help and participation with field collections and logistics may occasionally be required. **Requirements:** We are looking for a reliable, enthusiastic and motivated individual with training in animal husbandry, biological sciences or similar qualification. Prior experience with fish husbandry and technical running of aquatic facilities (handling, crossing, breeding, care, and water chemistry) would be advantageous but not required. The ability to carry out clean and physically demanding work is an absolute requirement. Willingness to learn and troubleshoot new techniques is important. Experience or understanding of basic genetics would be helpful, but is not necessarily a requirement. We expect from you interest and enjoyment in basic research, goal-oriented and self-motivated work ethic, flexibility and the readiness to learn new skills. English communication skills would be useful, as English is the working language in our lab. **To apply:** Please send your applications with CV and contact details of at least two referees by post or e-mail to:

Dr. Felicity Jones
Friedrich Miescher Laboratory of the Max Planck Society
Spemannstrasse 39
72076 Tübingen
Germany
fcjones@tuebingen.mpg.de

Jobs continued

Post doc positions

Postdoctoral position in dinoflagellate population genetics. Dr. Deana Erdner, University of Texas at seeking a Postdoctoral Scientist for a project examining the regional and local population structure of toxic *Gambierdiscus* dinoflagellates, the causative agents of ciguatera fish poisoning. This study is part of a larger, multiinvestigator project that seeks to understand the diversity, physiology, and ecology of *Gambierdiscus* in the Caribbean and Gulf of Mexico (<http://www.fgcu.edu/CiguaHAB/>). The ideal candidate would have a background in marine science and molecular biology, and a strong interest in algal biology and genetics. Previous postdoctoral experience is preferred.

The position is available to begin on or before Sept. 1, 2015 at the University of Texas Marine Science Institute, on the Gulf of Mexico coast (<http://www.utmsi.utexas.edu/>). Salary is negotiable, depending on experience, and includes benefits.

To apply, please send a CV, statement of interest, and the names and contact information of three references to Dr. Deana Erdner (derdner@utexas.edu <<mailto:derdner@utexas.edu>>).

The University of Texas at Austin is an Equal Opportunity Employer with a commitment to diversity at all levels. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, national origin, age, disability or veteran status. (Compliant with the new VEVRAA and Section 503 Rules) A criminal history background check will be required for finalist(s) under consideration for this position. If hired, you will be required to complete the federal Employment Eligibility Verification form, I-9. You will be required to present acceptable and original documents to prove your identity and authorization to work in the United States. Documents need to be presented no later than the third day of employment. Failure to do so will result in loss of employment at the university.

Banting Postdoctoral Fellowship. The department of Ecology and Evolutionary Biology at the University of

Toronto. **Salary:** \$70,000 annual stipend for 2 years. **Position summary:** Available to excellent junior scientists from any country to conduct postdoctoral research in Canada. **To apply:** applicants should first contact and obtain the agreement of a faculty advisor (or co-advisors) who is a member of EEB's graduate faculty; the faculty member(s) must agree to support the application. Please see this list for eligible faculty members: <http://www.eeb.utoronto.ca/people/G-faculty.htm>.

Application deadline: 16th July 2015. For full information on the Banting Postdoctoral Fellowships, including eligibility, please see this website:

<http://banting.fellowships-bourses.gc.ca>

President's message continued

Continued from page 1

"Taxonomic and Evolutionary Biology of Cutthroat Trout", "Utilizing Genetics to Accomplish Conservation Goals in Hatcheries".

Finally, for those of you traveling to Portland, I hope you will also attend the Genetics Section business meeting and social. This year our meeting will be on Monday, August 17 at 5:30p in room E-147 of the Oregon Convention Center. The social will be at the Doug Fir Restaurant (830 East Burnside Street – about a half mile from the Convention Center) on Tuesday, August 18 at 5:30p). I would like to thank Scott Blankenship for organizing the social.

I hope you all are having a great summer and I'm looking forward to seeing many of you in Portland in August for the national meeting.

Jeff

AFSGS Business

Proposed bylaws amendments and new award

In early September Genetic, the executive committee will ask Section members to approve three amendments to the Genetics Section bylaws. Two of these are “house keeping” amendments in that they formalize standing committees for the Section’s established awards (James E. Wright graduate award and Stevan Phelps memorial award). The third amendment creates a standing committee for a proposed Genetics Section Early Career Award. The Early Career Award is intended to be an annual award that recognizes the contribution of young researchers (within five years of having completed graduate training) in the field of fisheries genetics. The recipient of the award will be recognized at the Section’s business meeting as well as in the newsletter and on the Section’s website. See below for additional detail on the Early Career Award.

The following proposed amendments have been vetted by the AFS constitutional consultant. Voting will be done electronically approximately two weeks after the annual meeting in Portland. Until then, feel free to contact me or other members of the executive committee if you have any questions, comments, or suggestions. We will discuss the amendments during our annual business meeting in Portland.

Text to be amended to Section VI. of the AFS Genetics Section bylaws, Standing Committees:

Section VI.(d) James E. Wright Graduate Award Committee:

The James E. Wright Graduate Award Committee will be composed of three members. The chair of the committee will be a member-at-large and will be selected biennially by the incoming Genetics Section president. The two other members will be selected by the committee chair.

Section VI.(e) Stevan Phelps Memorial Award Committee:

The Stevan Phelps Memorial Award Committee will be composed of four to seven members. The chair of

the committee will be a member-at-large and will be selected biennially by the incoming Genetics Section president. The other members will be selected by the committee chair.

Section VI.(f) Genetics Section Early Career Award Committee:

The Genetics Section Early Career Award Committee will be composed of three members. The chair of the committee will be a member-at-large and will be selected biennially by the incoming Genetics Section president. The two other members will be selected by the committee chair.

Proposed bylaws amendments and new award

AFS Genetics Section Early Career Award (text to be added to the Genetics Section website)

Genetics Section Early Career Award:

The Genetics Section Early Career Award is given annually and recognizes the contribution of early-career researchers to the field of fisheries genetics. The goal of this award is to promote innovative and particularly applicable genetics research, increase interest in fisheries genetics careers, and enhance professional connections among fisheries geneticists. The candidate’s genetics work should be applicable to the Society’s mission to “improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science”. The award will be presented at the Genetics Section meeting.

Eligibility:

There are no restrictions on nominators. A nominee must be a full or affiliate member of the AFS Genetics Section and must be within five years of having completed graduate training and in the initial stages of career development, whether that be in an academic, agency, or NGO/conservation setting.

Continued page 11

AFSGS Business

Continued from page 10

Nomination package:

1. Cover letter with the nominee's name, professional address and contact information, and the same for the person submitting the nomination.
2. A one-page letter of nomination.
3. The nominee's C.V.
4. Three reprints of publications or other summary material representative of the nominee's contribution to fisheries genetics.

Nominations should provide clear evidence of how the candidate's research furthers our understanding of fish evolution, ecology, conservation or management. Leadership in integrating genetic research with education or end-user/community outreach is considered strongly.

The deadline for nominations will be announced annually by the committee chair.

Section Officers, Committees and Representatives

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Committees

Hall of Excellence

Jeff Olsen

James Wright Award

Amy Welsh

Andrea Schreier

Carol Stepien

Listerve

Andrew Whitely

awhiteley@eco.umass.edu

Stevan Phelps Award

Ken Currens

Website

Wesley Larson

wlarson1@uw.edu

Kristen Gruenthal

Kristen.gruenthal@noaa.gov

Representatives

PFIRM

Kim Scribner

Black Bass Symposium

Meredith Bartron

Fisheries

Marissa Jones

