



# The American Fisheries Society Genetics Section Newsletter

Volume 27, Issue 3  
August 2014

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## President's message

Where has the time gone? The past two years serving as the section president for me has been a great experience. I've enjoyed interacting with section members, the executive committee, society staff and the governing board (comprised of other section and division presidents, and other society leadership). It's been so interesting to



Meredith Bartron, AFSGS president.

learn how the society functions, interact with and learn how other sections are trying to advance their services to their members and fulfill their role within the society. There have been some great changes in the past two years within the society that I think will result in some new society directions and function. First, the governing board has worked to improve communication and to streamline operations with the layers of society leadership. Those changes may not be initially obvious, but have resulted in more transparent operations, more efficient meetings for the governing board, and more opportunity to discuss and debate important issues that could have a tangible impact on the society's future. Recent debates on topics such as advocacy and the role of the society have been interesting to take part in, and have included outcomes such as the new society policy director, and increased communication between the society and other organizations.

Within the section, it's been great to see the Hall of Excellence come to fruition. Thanks to the Hall of Excellence Committee (Jeff Olsen, Kim Scribner, Lisa Seeb, and Bill Templin), and to those who nominated candidates, we have four amazing inductees into the inaugural class of the AFS Genetics Section Hall of Excellence! This award will be a great way to honor those who have helped establish and grow this amazing field, and will be a good compliment to the other section awards to encourage students (Wright Student Travel Award) and scientific achievement (Phelps Best Paper Award). Other new changes include an updated section website (<http://genetics.fisheries.org/>) *continued on page 2*

## President's message continued

Continued from page 1 which not only looks great but is also easier to navigate. These results are directly due to the efforts of section members, folks who have been willing to step up and fill a need, so thank you.

There are more opportunities to be involved in section activities, and you'll hear about some of these at the section business meeting in Quebec City. Our meeting will be held on Monday, August 18, at 5:30 pm in the Convention Centre, room 2104B. We'll also present section awards at the meeting, including the new Hall of Excellence awards. I hope you can join us. Based on feedback at the section meeting in Little Rock last year, we looked into getting conference phone capabilities in order to allow participation by those unable to attend in person, but it was cost prohibitive. We'll try again for the next meeting, but will do our best to get meeting notes and information out as soon as possible after the meeting. The section will also transition leadership at the meeting, led by Jeff Olsen as the new section president. And please join us at the joint Genetics Section and eDNA Symposium social, held Tuesday August 19<sup>th</sup>.

Thank you for these past two years; it's been an honor to serve as the genetics section president.  
-Meredith Bartron

## Announcement



### AFSGS Section Officer Election Results

Please join me in congratulating Wendylee Stott and Amy Welsh as newly elected officers of the AFS Genetics Section. Wendylee will continue her involvement with the Executive Committee as President-elect and Amy will be joining the committee as the new Secretary/Treasurer. They will be installed in August at the annual section business meeting in Quebec City. If you are at the AFS national meeting be sure to attend the section business meeting Monday night to congratulate them.

## Announcement



### eDNA Symposium and Genetics Section Social

Each year we have the opportunity to congregate at the National AFS General Meeting, meet new and visit with old colleagues and discuss scientific topics relevant to our profession. This year is no different!

eDNA is one such topic that is garnering a lot of attention in the world of fish biology. To facilitate the conversation around eDNA and genetics in general, **Genidaqs** and the **AFS Genetic Section** is co-sponsoring the eDNA Symposium Social on Tuesday, August 19<sup>th</sup> at 5pm at the Les voûtes de Napoléon. This social will provide us the opportunity to talk among colleagues, inspire each other with new ideas and approaches, discuss where the genetics field is going, and find opportunities for mutually beneficial collaboration.

**Life Technologies** will be providing tasty food from Chef Chez Soi, and an open bar is sponsored by **Genidaqs** and **Fluidigm**.

This should be a great gathering for folks interested in eDNA and genetics. We hope to see you there!

**Venue:** Les voûtes de Napoléon

**Time:** Starts at 5pm

**Date:** Tuesday, Aug 19

**Location:** 680 Grande Allée Est

## Meeting Reminders



August 17<sup>th</sup>-21<sup>st</sup>, 2014

### Genetics Section Social and Meeting

Monday August 18<sup>th</sup> 5:30pm – 9:30pm  
Genetics Section Meeting  
Convention Center, 2104B

Tuesday August 19<sup>th</sup> 5:00pm - ?  
eDNA Symposium Social  
Les voûtes de Napoléon, 680 Grande Allée Est

### Genetic Section Symposia

**Environmental DNA: A New Tool for Aquatic Conservation and Fisheries Management**  
Room 205A

Part 1: Monday August 18<sup>th</sup> 1:30 – 5:20pm

Part 2: Tuesday August 19<sup>th</sup> 8:20am – 12:10pm

**Genomic Tools for Fisheries Management and Conservation: Promises and Challenges**  
Room 205A

Part 1: Wednesday August 20<sup>th</sup> 8:20am – 3:10pm

Part 2: Thursday August 21<sup>st</sup> 8:20am – 5:20pm

**Hope to See You All There!**

## Announcement



### **Genetics Section Inducts Inaugural Class into Hall of Excellence**

This year the Genetics Section will induct the first four members into its' Hall of Excellence. Each member of this inaugural class has made lasting contributions to the fields of fisheries genetics and conservation genetics of aquatic organisms. Each inductee has conducted foundational research, published seminal papers and text books, promoted genetic applications for fisheries and aquatic resource conservation and management, and mentored students, many of whom have gone on to distinguished careers in their own right. The formal induction will occur during the Genetics Section business meeting at the national meeting in Québec City (5:30-6:30p Monday, August 18, Convention Center, room 2104B).

2014 Inductees and Affiliation:

Fred Allendorf (University of Montana)  
John Avise (University of California, Irvine)  
Fred Utter (University of Washington)  
Jim Wright (dec'd, Pennsylvania State University)

A short biography and photo of each inductee will be posted soon to the Hall of Excellence page on the Genetics Section website (<http://genetics.fisheries.org/hall-of-excellence/>).

Thank you to the Hall of Excellence committee for their hard work: Jeff Olsen (chair, Section president-elect), Lisa Seeb (member-at-large), Kim Scribner (Section past president), Bill Templin (Section past president).



## Student Subsection Election

**Rock the Vote, Students!**



Dear Student Subsection members --

The time has come to vote for new officers for the Student Subsection Executive Committee! Please use the following link to cast your votes: <https://www.surveymonkey.com/s/BPXHSNP>

Please remember that you are only eligible to vote for the Division Representative in the Division to which you belong. If you have any questions, concerns, or comments, please contact Dan Dembkowski at [daniel.dembkowski@sdstate.edu](mailto:daniel.dembkowski@sdstate.edu). Please submit your votes no later than

**Friday, August 15.**

### Candidate summary

#### *President-Elect*

Ross Boucek

#### *Secretary/Treasurer*

Nick Sievert

Karen Dunmall

Kyle Bales

#### *North Central Division Representative*

Nick Cole

#### *Northeastern Division Representative*

Vivian Nguyen

#### *Southern Division Representative*

M. Clint Lloyd

#### *Canadian Aquatic Resources Representative*

Kyle Wilson

Mike Lawrence

## Candidate Bios

### AFS Student Subsection Candidate Biographies

#### **Ross Boucek (President-Elect)**

Ross Boucek is a PhD student in the Department of Biology at Florida International University (Miami FL). He earned his B.S. in Fisheries Science at Virginia Tech, where he first became a member of the American Fisheries Society. In 2011, Ross completed his masters in the Department of Environmental Sciences at Florida International University. Currently, he serves as the President of the Florida Chapter of the American Fisheries Society student sub-unit. Working with other members of the student sub-unit, Ross developed a student driven science blog *From Reefs to Rivers*, that features student developed training videos, video documentaries, and blogs that communicate a breath of fisheries research occurring in Florida. Based off of these efforts, the FL AFS student sub-unit was selected as the 2014 Outstanding Student Sub-unit.

Ross also serves as the graduate student representative for both the National Education Committee, and the National site communications working group for the Long Term Ecological Research (LTER) Network, and was the 2013-2014 student president of the Florida Coastal Everglades LTER chapter. Apart from these leadership roles, he also is a productive scientist, publishing 8 peer reviewed publications over the last 3 years.

If Ross is elected Student Subsection AFS president, he will aim improve student professional connectivity by hosting quarterly meetings with subunit leaders and division student representatives, both online via Google hangout, and in person at divisional and national meetings. He will also strive to improve social media connectivity among sub-units, by developing a venue that displays and integrates each AFS student chapter's social media efforts, that is accessible by the entire society.

## Candidate bios

### **Nick Sievert (Secretary/Treasurer)**

Nick Sievert is an M.S. student in the Department of Fisheries and Wildlife Science at the University of Missouri-Columbia in the Cooperative Fish and Wildlife Research Unit. He is currently researching stream fish vulnerability to climate change and habitat degradation, as well as developing a prioritization framework for stream fish conservation in Missouri's conservation networks. Nick hopes to continue his involvement with AFS by serving as the Secretary/Treasurer of the Student Subsection. He has been involved in AFS at the state, regional, and international level. In Missouri he has presented his research at both the Missouri Natural Resources Conference (2013, 2014) as well as at the annual meeting of the Missouri AFS Rivers and Streams Technical Committee (2013). At the regional level he has presented his research at the Midwest Fish and Wildlife Conference (2012, 2014), was awarded the Joan Duffy Travel Grant, and was a finalist for the Janice Lee Fenske Memorial Award. At the international level of AFS, Nick has presented his research at the Annual Meeting of the Parent Society (2012 Poster, 2013 Presentation & Poster). He is a recipient of the John E. Skinner Memorial Award (2014) and the AFS/SeaGrant Best Student Poster Award (2013). He is also involved in the Fisheries Information Technology Section where he serves as a co-editor of the newsletter, as well as on the communications committee. Nick has been co-teaching Basic/Intermediate and Advanced GIS courses for AFS Continuing Education at both the Annual Meeting of the Parent Society (2013, 2014) as well as for the Iowa Chapter of AFS (2014). He has served as a reviewer for the North American Journal of Fisheries Management. In addition to his involvement in AFS, Nick has been active in local outreach participating in the Missouri 4-H Youth Sportfishing Event (2014) and as a member of the team which won the Chancellors Award for Interdisciplinary Outreach at Mizzou Adventures in Education (2014). He has also been heavily involved in the Fisheries and Wildlife

## Candidate Bios

Graduate Student Organization at the University of Missouri serving as Vice President (2012/2013), workshop coordinator (2014) and on both the travel award committee (2011/2012) and speaker committee (2011-2013). Nick would like to continue to expand his involvement within AFS, and use the skills and experience he has gained through his other activities in service of the Student Subsection. He feels that representing the interests and perspectives of students is critical to the development of the fisheries profession. Nick would like to contribute to the vital role that the Student Subsection plays in providing opportunities for fisheries students to achieve success. Please consider voting for him for the position of Secretary/Treasurer.

### **Karen Dunmall (Secretary/Treasurer)**

Broadly, my research goals are to identify and address ecologically important research questions that are meaningful both in the wider scientific context and also maintain a human connection through culture and involvement. My PhD research focuses on using colonizing Pacific salmon as indicators of environmental change in the Canadian Arctic. I am drawn to the north, and my research on fisheries over the past 15 years has taken me to Norway, Alaska, northern Manitoba, Yukon Territory and Northwest Territories. While research in the north presents challenges, the connections between the resources and the people are emphasized, and the impacts from apparently accelerated rates of change may be magnified. By developing community-based monitoring programs, I involve people in research regarding their fishery resources and am able to monitor changes across a wide geographic area. I plan to continue to emphasize the connection between subsistence and science in future research by addressing research questions that are both important locally and applicable globally. For more information about the Arctic Salmon project, please visit: [www.facebook.com/arcticsalmon](http://www.facebook.com/arcticsalmon). I have been involved in AFS in several different

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*Continued from page 5* capacities over the past 14 years. Most recently, I received the 2014 J Frances Allen Scholarship through AFS. I have been an AFS member since 2000 and I was the Canadian Student Representative from 2000 to 2001, during my MSc. In 2005 and 2006, I mentored students through the Hutton Junior Fisheries Biology program while I was the Fisheries Biologist at Kawerak in Nome, Alaska. In 2006, I provided the opportunity for the Hutton student to attend the AFS Alaska Chapter meeting in Fairbanks and we co-presented regarding the Hutton program and its benefits to both the student and mentor. I have given presentations at AFS meetings in 2000 (Southern Ontario Chapter, poster), 2001 (AFS National, poster), 2003 (Alaska Chapter, oral & poster), 2004 (Alaska Chapter, oral), 2005 (AFS National), 2006 (Alaska Chapter, oral), and 2008 (Alaska Chapter, oral). I will also be giving an oral presentation at the 2014 AFS National meeting. I have been a member of the Equal Opportunities Section and was the recipient of the Equal Opportunities Travel Award to attend the AFS National meeting in 2000. I also received a John E. Skinner Award to attend the 2014 AFS meeting. I am a co-author on a paper included in American Fisheries Society, Symposium 30 and I have two publications in the North American Journal of Fisheries Management. I have also reviewed several manuscripts, including for the Transactions of the American Fisheries Society.

I would like to continue my involvement with AFS by becoming the Secretary/Treasurer for the Student Subsection. I hope that my broad range of experiences will assist me in this role and that I will help to continue the important efforts of this subsection.

### **Kyle Bales (Secretary/Treasurer)**

I began my academic profile gaining my B.S. in Biology at Central College in Pella, IA, where I quickly realized my love for the environment. While at Central I worked closely with my professors in the field gaining experience in both wildlife and aquatic ecosystems. As an undergraduate I worked with a

## Candidate Bios

local Conservation Board where I gained experience as a conservation supervisor performing both wildlife and aquatic system management. From that point, I started my M.S. at Southeast Missouri State University through a cooperative agreement with the Missouri Department of Conservation where I am currently the crew leader/supervisor on Lake Sturgeon assessment in the Upper Mississippi River. I am also heavily involved in many other projects that are being carried out by our field station including five other graduate student projects (e.g., Asian carp population ecology, Grotto Sculpin assessment, Paddlefish demographics, biological opinion sturgeon assessment). While working on my degree I have been active at a plethora of meetings (Missouri River Natural Resources Committee, Upper Mississippi River Conservation Committee, Mississippi River Research Consortium, American Fisheries Society Parent Society, Iowa/Nebraska American Fisheries Society, and Midwest Fish and Wildlife Conference) where I have presented 15 paper/poster presentations. I was awarded the best student poster at both the 2013 Missouri River Natural Resources Committee meeting and the 2013 Iowa American Fisheries Society subsection meeting. I am also an honorable mention for the Skinner Award at the 2014 American Fisheries Society Meeting and the recipient of the travel award at the Mississippi River Research Consortium in 2014. I have three papers in preparation with outlets including *Transactions of the American Fisheries Society*, *Journal of Applied Ichthyology*, and *North American Journal of Fisheries Management*.

In addition to my fisheries interest I am also very interested in staying active within the American Fisheries Society because I know that it will play a huge role in my future career as a fisheries scientist. I am currently a member of American Fisheries Society and involved in many subsections including, Missouri Chapter, Iowa Chapter, Fish Management Section, Fish Habitat Section, Fisheries Information and Technology, and the Student Subsection of the Education Section. I am the current North Central

## Candidate bios

*Continued from page 6* Division Student Representative and have been working to interact with the student subunits throughout this division. I was also a student judge for the best student presentations at the 2013 parent meeting and have evaluated best student abstracts for the 2014 parent meeting. At a more local level I have recently co-created the student subunit at Southeast Missouri State University with my advisor Dr. Quinton Phelps. I am currently holding the President position in that subunit. Additionally, I have helped mold and mentor an AFS Hutton recipient while working with Missouri Department of Conservation. I am hopeful that my fisheries experiences and my active participation in AFS will allow me to become more active as the Secretary/Treasurer of the student subsection of the American Fisheries Society.

### **Nick Cole (North Central Division Representative)**

I became interested in ecology early while growing up on a farm in Northwest Missouri and have maintained this interest throughout my career. I began working as a technician with the Missouri Department of Conservation and the US Fish and Wildlife Service as an undergraduate at the University of Missouri. With these agencies, I assisted research on large riverine systems and their associated fisheries. After graduation, I accepted short-term technician positions with NC State and Nebraska Universities where I worked on anadromous fish species and altered aquatic habitat mapping, respectively. From here, I began working at the University of Florida and conducted my master's research on freshwater recreational angling dynamics. I excelled as a graduate student and was recognized as the UF Fisheries and Aquatic Science Outstanding Masters Student of the Year, (2013) the UF School of Forest Resources and Conservation Outstanding Teaching Assistant of the year (2013), and received the AFS Florida Chapter Roger Rottman Memorial Scholarship (2014). I recently defended my master's research and accepted a PhD position at the University of

## Candidate Bios

Nebraska to continue my focus on fisheries management issues and their resolution through applied ecological research.

As I begin my position in Nebraska, I am interested in working closely with my professional society and serving in a leadership role. It is apparent to me that my interests in aquatic management research and freshwater ecology align with the American fisheries society and its student-subsection. I believe that serving as the North Central Division representative will not only help myself build a stronger network but also provide a pathway to assist others with similar professional interests. Working and collaborating outside the paradigm of my university is important to me and serving in this position will provide me a great avenue for future collaboration!

### **Tracy Wendt (Western Division Representative)**

My name is Tracy Wendt, and I am in the last year of my MS studies at the University of Montana. I have a BS in Resource Conservation, minor in Wildland Restoration, and an Associates of Applied Science in Wildlife Biology. I am interested in fish habitat restoration and conservation, especially inland trout streams in the Rocky Mountain region. I have worked as a fisheries technician on the Clark Fork and Blackfoot Rivers. Additionally, I have spent two summers working for Montana Trout Unlimited and Five Valleys Land Trust primarily coordinating a restoration project at Rock Creek, MT, but also helping with miscellaneous other restoration projects in Western Montana. I look forward to finishing my MS and beginning a career in trout habitat restoration – I particularly enjoy working with landowners and participating in collaborative restoration efforts.

I am currently the president of the University of Montana student sub-unit of the Montana Chapter of AFS. This marks my fourth year as an officer with the sub-unit. I am especially proud of the strides we've made to diversify and grow our membership. In 2014, UM AFS was named "Outstanding Student Sub-Unit of the Year" by

## Candidate bios

*Continued from page 7* the Western Division of AFS. In addition, I have served the past two years as Student Representative to WDAFS Excom and received the Award of Special Recognition in 2014 for my service to WDAFS as student rep. I was a member of the WDAFS 2014 annual meeting planning committee, organizing student volunteers, assisting with meeting logistic planning, and working with Mazatlan student representatives to organize student activities for the meeting. For the past three years, I have helped plan the student social and organize student volunteers at the Montana Chapter AFS meeting. I have also moderated sessions and presented research and posters at AFS state and division meetings. In 2013, as an undergraduate, I received a Skinner Memorial Award that allowed me to travel to, and present research at, the AFS Annual Meeting in Little Rock, AK.

### **M. Clint Lloyd (Southern Division Representative)**

I wish to nominate M. Clint Lloyd for the Southern Division Student Representative position. Mr. Lloyd has been a Parent Society and Southern Division AFS member since 2009 and a Mississippi Chapter and MS State Student Sub-Unit member since 2010. He served as sub-unit Vice President in 2013-2014 and will be activities co-chair in 2014-2015. Clint has attended and presented at most state, division, and national meetings since he became a member of AFS. Mr. Lloyd has received multiple awards including Best Undergraduate Student Paper at the 2009 Georgia Chapter meeting and Best Student Presentation Award at the Mississippi Chapter meeting in 2013.

In addition to his research work, Mr. Lloyd has devoted a great deal of time and effort into education and community outreach. For two years, he has volunteered as a laboratory teaching assistant for fisheries courses on MSU Starkville campus and has assisted with youth education programs held by the Department of Wildlife, Fisheries, and Aquaculture at MS State. Clint is always one of the first to volunteer to plan or work

## Candidate Bios

on a community outreach project that involves natural resources conservation. He has become a “go-to” member of the student sub-unit when fun and educational activities are being planned.

I believe that Mr. Lloyd’s exemplary communication skills shown through his education and outreach activities make him a prime candidate for the Southern Division Student Representative and it is with great pleasure that I nominate him for the position.

### **Kyle Wilson (Canadian Aquatic Resources Representative)**

I am a current PhD student at the University of Calgary under Dr. John Post studying landscape patterns and processes in inland fisheries. I got my MSc at the University of Florida under Dr. Mike Allen focusing on fish-plant interactions. I have served as the Canadian Division representative for the Education Section: Student Subunit. Together with the Ontario AFS chapter and the BC subchapter, I would like to create a new online blog focusing on an outreach & public education for fisheries ecology from Canada's AFS student members. We have discussed this in general, and I would like to meet them at the national AFS meeting to discuss implementation details this August.

### **Mike Lawrence (Canadian Aquatic Resources Representative)**

I completed my BSc. in Marine and Freshwater Biology at the University of Guelph (ON, Canada). Here I volunteered in the lab of Dr. Douglas Fudge, working on helping a graduate student collect data for a project concerning hagfish mucin vesicle release. In my final year, I completed a 4th year research thesis project concerning the interaction of cold stress and urea on protein denaturation and possible adaptive mechanisms in elasmobranch fishes in the lab of Dr. James Ballantyne. I am currently a M.Sc. in biology at McMaster University (ON, Canada) in the lab of Dr. Chris Wood and co-supervised with Dr. Patricia



## Candidate bios

*Continued from page 8* Wright (U of G). My thesis surrounds the mechanisms of renal ammonia transport in teleost and elasmobranch fish and how this integrates in system acid-base regulation in a comparative manner. During my time here I have worked with a variety of species including both Pacific and Atlantic spiny dogfish sharks (Bamfield Marine Sciences Center, BC, Can & Mt. Desert Island Biological laboratory, ME, USA respectively), common goldfish, common carp, rainbow trout and European green crabs (*Carcinus maenas*). I am also starting a PhD in Biology this September in the lab of Dr. Steven Cooke on the general topic of stress physiology and predator-prey interactions in tropical marine sport fish.

I am also an active and PADI certified diver (advanced open water) and am a member of the following societies:

*American Fisheries Society (2014-present)*

*American Elasmobranch Society member (2014-present)*

*The Fisheries Society of the British Isles (FSIB) member(2014-present) Canadian Society of Zoologists member (2013-present)*

In regards to my involvement in AFS, I'm a relatively new member so my experience with this society is limited however I have been an active member in CSZ for quite a while now regularly attending the annual conferences and engaging in the section meetings (discussion on club/membership policy, info, finances, etc).

### **Vivian Nguyen (Northeastern Division Representative)**

I am currently a PhD student in my second year with Dr. Steven Cooke (Fish Ecology and Conservation Physiology Laboratory) at Carleton University. I have been involved in fisheries and aquatic sciences since 2006 and have been a member of AFS since 2007. I have always been peripherally involved with AFS-OC and the Student Subunit, but never officially (e.g., assisting in coordinating the raffles and volunteering at meetings). I have leadership experience as co-founder and President of the Environmental Society

## Candidate Bios

at Carleton University. I have substantial experience in public outreach, fundraising, marketing/advertising and coordinating events, etc., through my involvement as president of Carleton University Students for the Environment, volunteer coordinator for an NGO (Green Island School) in Myanmar, treasurer for Carleton University's Biology Department, undergraduate Science representative for the Carleton University Student's Association, and other. I also initiated and headed the World Fish Migration Day Event in Ottawa, on May 24th of this year, which included soliciting funds, gathering a committee, overseeing and delegating tasks, advertisement, communicating with funders and organizations, etc. The event was a huge success with only 1.5 months to prepare, we were able to organize a full day of interactive and educational activities at the Canadian Museum of Nature and hosted a Science Pub Talk open to the public in the evening. Furthermore, within our lab group, I coordinated a number of social activities, I coordinated the production of our logo and website, and other leadership activities.

## Comic



Image via AsapSCIENCE.

## Calendar

### AUGUST 2014

**10<sup>th</sup> Abstracts due.** Freshwater, Fish, and the Future. Rome, Italy

**14<sup>th</sup>- 18<sup>th</sup> Meeting.** International Marine Conservation Congress. Glasgow, England.

**17<sup>th</sup>- 21<sup>st</sup> Meeting.** Annual AFS meeting. Quebec City, Quebec.

### SEPTEMBER 2014

**3<sup>rd</sup> Abstracts due.** The Society for Integrative and Comparative Biology (SICB). West Palm Beach, FL.

**3<sup>rd</sup>-7<sup>th</sup> Meeting.** 7<sup>TH</sup> World Recreational Fishing Conference. Campinas, State of Sao Paulo, Brazil.

**15<sup>th</sup>-19<sup>th</sup> Meeting.** International Council for the Exploration of the Sea (ICES) annual science conference. A Coruna, Spain.

### JANUARY 2015

**3<sup>rd</sup>-7<sup>th</sup> Meeting.** The Society for Integrative and Comparative Biology (SICB). West Palm Beach, FL.

**6<sup>th</sup> Symposium proposal due.** American Fisheries Society. Portland, Oregon.

**26<sup>th</sup>-30<sup>th</sup> Meeting.** 7<sup>TH</sup> Freshwater, Fish, and the Future. Rome, Italy.

### FEBRUARY 2015

**28<sup>th</sup> Abstracts due.** The International Symposium on Genetics in Aquaculture (ISGA) XII. Santiago de Compostela University, Spain.

### JUNE 2015

**21<sup>st</sup>-27<sup>th</sup> Meeting.** The International Symposium on Genetics in Aquaculture XII. Santiago de Compostela University, Spain.

**22<sup>nd</sup>-24<sup>th</sup> Meeting.** Fish Passage 2015- International conference on river connectivity best practices and innovations. Groningen, the Netherlands.

### AUGUST 2015

**16<sup>th</sup>-20<sup>th</sup> Meeting.** American Fisheries Society. Portland, Oregon.

## Courses

### An Introduction to Zebrafish Transgenesis

8<sup>th</sup>-10<sup>th</sup> October 2014

Edinburgh, Scotland

This workshop is open only to delegates registering for the TT 2014 Meeting. The practical sessions will start with gene expression interference using classical morpholino microinjection on Day 1, which is complemented on Day 2 with microinjection of a simple fluorescent transgene construct. Both the tutorials and practical instruction will provide all the information needed to perform husbandry and gene manipulation in the early zebrafish embryo. Topics include: husbandry best practices, microinjection principles, transgenesis and mutagenesis using recombinases, imaging and cryopreservation.

### 2 Day qPCR Course

5-6 Dec, 2014.

University of Regensburg, Germany.

Entire qPCR workflow covered in two days: 1) Focus on gene expression (including microRNA); 2) Theoretical background and practical hands-on data-analysis; 3) Complemented with training on Biogazelle's qbase+ software; 4) Focus on experiment design and data-analysis; and 5) Attention for validation and quality control. For more information email: [mariana.mondragon@biologie.uni-regensburg.de](mailto:mariana.mondragon@biologie.uni-regensburg.de)

### Recent Advances in Conservation Genetics

12<sup>th</sup> – 21<sup>st</sup> January 2015

Rincon of the Seas Hotel, Rincon, Puerto Rico  
The American Genetics Association in conjunction with the University of Puerto Rico is presenting a 10 day intensive course directed by Dr. Stephen J. O'Brien, and taught by renowned scientists in methods, interpretation, and applications of molecular genetic and genomic analyses for conservation of endangered species. Application deadline is 15 Sept 2014. Information about the course, participating faculty, venue, and applications can be found at: <http://congen2015.com/>

## Jobs

### Graduate positions

**PhD Graduate Assistantship in Marine Molecular Population Genetics/Ecology.** Location: A new, collaborative, state-of-the-art facility established for molecular-genetic studies of marine organisms, located at the Harte Research Institute at Texas A&M University - Corpus Christi, Corpus Christi, Texas 78412-5869. Research Focus: Research will involve development and assay of nuclear-encoded, single nucleotide polymorphisms (SNPs), microsatellites, and/or mitochondrial DNA sequences for projects involving population genetics and molecular ecology of marine fishes, including sharks. Qualifications: Master's degree in marine science or related field and/or B.S. in appropriate discipline required with documented work in the field of molecular population genetics and/or molecular ecology. Applicants should be ambitious, self-motivated, and Biology, Colorado State University, Fort Collins, CO. Description: The student will participate in a 2-year study and be able to work collaboratively with other lab members. Salary: Salary range is \$1,500 - \$2,000/month, with an increase to \$2,200.00/month upon completion of comprehensive exams. Closing date: Position is available Spring 2015. Contact: Send curriculum vitae, description of research experience/interests, unofficial transcripts, GRE scores, and names, addresses, phone numbers, and e-mail address of three references to Dr. David S. Portnoy and Dr. John R. Gold at [david.portnoy@tamucc.edu](mailto:david.portnoy@tamucc.edu) and [goldfish@tamucc.edu](mailto:goldfish@tamucc.edu) respectively. International applicants will be considered if they hold the correct visa(s). Candidates must meet minimum requirement of the Marine Biology Ph.D. Program at Texas A&M University - Corpus Christi <http://marinebiology.tamucc.edu>.

**PhD Assistantship.** Agency: Oklahoma Coop. Fish and Wildlife Research Unit. The goal of this project is to use eDNA to verify the presence of cavefish and cave crayfish populations of the Ozark Highlands ecoregion while developing the foundation for monitoring methods that may be used in the future to document species abundance. Please send CV with

3 references, cover letter that described your research interest and background, transcripts (unofficial are fine), GRE scores, and a writing sample to: Dr. Shannon Brewer ([shannon.brewer@okstate.edu](mailto:shannon.brewer@okstate.edu)). Salary: Aprox \$18K a year plus benefits and tuition waiver. Close date: 31 Nov 2014 or until filled.

**PhD and MSc Positions in Fisheries Genomics.** Agency: Dalhousie University / Fisheries and Oceans Canada. Dalhousie University / Fisheries and Oceans Canada. MSc and PhD graduate student positions are available in the Department of Biology at Dalhousie University in Halifax, Nova Scotia, working on the conservation genomics of Atlantic salmon and Atlantic cod in Newfoundland and Labrador. These projects are part of a collaboration between Paul Bentzen (Dalhousie University) and Ian Bradbury (Fisheries and Oceans Canada, DFO). The successful candidates will join a team of researchers conducting research on similar themes in a variety of marine and freshwater organisms. The projects will entail use of next generation sequencing approaches to resolve signatures of adaptation across genomes and populations, and the use of molecular tools in mixture analysis and assignment. Salary: negotiable. End date: until filled. If interested please send statement of research interests, CV and names and e-mail address of two people willing to act as academic references. Email: [ian.bradbury@dfo-mpo.gc.ca](mailto:ian.bradbury@dfo-mpo.gc.ca)

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

## Jobs continued

### *Postdoc positions*

**Postdoc position in Evolutionary Biology.** The University of Oklahoma, Department of Biology invites applications for a post-doctoral fellow to work in the lab of Dr. Ingo Schlupp (<http://www.ou.edu/schlupp/>). We seek a highly motivated, innovative scientist working in any area of Evolutionary Ecology. The Schlupp lab is working mainly with livebearing fishes, and experience with that group would be beneficial. The training and duties include carrying out research independently and seeking extramural funding. We seek a person that works well with Graduate and Undergraduate students. The post-doctoral scholar is expected to teach one course per semester. The topic of the course will be determined together with the Chair of Biology, Dr. Randall Hewes. The position is for four years, with annual renewal, and an annual salary of \$40,000. The Department of Biology provides a vibrant, positive environment fostering excellence in Research and Teaching (<http://biology.ou.edu/>). Norman is a safe, family friendly community with many of the benefits associated with a college town, including low cost of living. A PhD is required at the time of appointment. Applicants should send a single pdf containing the following items in order: cover letter, CV, research and teaching statement, and up to three reprints/preprints. Also, please provide contact information for two referees (name, affiliation, e-mail address, and telephone number). The pdf should be named with the candidate's lastname\_firstname and e-mailed to Dr. Ingo Schlupp at [schlupp@ou.edu](mailto:schlupp@ou.edu). Review of applications will begin August 15th and continue until the position is filled.

### *Professional*

**Laboratory Fish Care Technician.** The laboratory of Dr. Daniel Bolnick at UT Austin, seeks an organized and experienced individual to fill a job position as an animal care technician. The technician would join a friendly and diverse research lab studying the evolution of immunity to parasites. The technician would work at the University of Texas at Austin main

campus, and be a part of one of the leading Evolution Ecology & Behavior departments in the U.S. The primary duties of the technician will be to care for a large laboratory population of fish, the threespine stickleback. The technician will be responsible for aquarium system maintenance, feeding animals, maintaining clean aquaria and animal care rooms, purchasing supplies, rearing fish food (copepods), maintaining animal care logs, and breeding fish. The technician will also be called upon to assist other lab members with experimental assays of fish resistance/tolerance to a tapeworm parasite. Additional responsibilities, as needed, may include assisting with specimen dissection, DNA extraction, and related laboratory analyses. The key qualifications for this position are: i) prior experience with fish care and aquarium systems. ii) strong organizational skills and attention to detail iii) a strong work ethic and ability to collaborate with others iv) a Bachelor's degree, or higher, preferably in biology or a related field. To apply, please send a pdf containing a cover letter, a CV, and names and contact information for two recommendation letter writers to Dr. Daniel Bolnick ([danbolnick@austin.utexas.edu](mailto:danbolnick@austin.utexas.edu)). Any previous experience with animal care, fish, or laboratory should be emphasized and explained in detail in the cover letter and letters of recommendation wherever possible. Questions may be directed to the same email address. More information on research in the lab can be found at <https://webpace.utexas.edu/dib73/Bolnicklab/Bolnicklab.htm?uniq=3D5ptsas>. Applications will be reviewed as they are received, and the position will remain open until a suitable candidate is hired, but we expect to make a decision no later than August 15. The position is intended to be full time, but if required we could consider a half-time position. The employee would initially be appointed for a period of 12 months at a starting salary of approximately \$2,500 per month (depending on qualifications), plus benefits. The chosen applicant will ideally start work in August 2014, though later start dates might be negotiable. Women and minorities are encouraged to apply.



## Jobs continued

### Professional continued

**Researcher/Lab-manager.** Agency: University of Texas, Integrative Biology. Location: Austin, TX. Description: Purpose of the position: Will provide technical assistance in genetic and genomic analysis of animals, plants, and microorganisms in the lab of Ulrich Mueller, Integrative Biology, University of Texas at Austin, USA. Research integrates evolutionary genomics, molecular ecology, microbiology, behavioral evolution, and plant biology. Essential Functions: Conducts research on genetic/genomics and molecular-ecological analysis of animals, plants and microorganisms. Trains new laboratory personnel on laboratory techniques and laboratory procedures. Required Qualifications: Bachelor's degree in biology. Experience with scientific equipment used in a genetics laboratory. Preferred Qualifications: Experience in genomics, molecular-genetics, or quantitative-genetics of plants or animals. Preference will be given to candidates with some of the following skills: bioinformatics; microbiology; next-gen sequencing; transcriptomics; quantitative genetics. Ability and interest in collaborative work with post-docs, graduate students, and undergraduate researchers. To apply, please send single pdf-file including

resume and contact-information of three referees to: Prof. Ulrich Mueller, Integrative Biology, University of Texas at Austin; [umueller@austin.utexas.edu](mailto:umueller@austin.utexas.edu).

**Research Faculty in Fish Biology.** Agency: Florida Atlantic University, Harbor Branch Oceanographic Institute. Harbor Branch, located in Fort Pierce Florida, seeks candidates for Assistant, Associate, or Full Research Professor with expertise in fish biology and/or ecology for studies of estuarine/lagoon systems and/or open ocean systems. The primary focus of this position is research, and there is opportunity for teaching and directing graduate students and postdoctoral investigators. Established in field of expertise and possess (1) earned doctorate in an area applicable to marine science, oceanography, or ecology (2) strong publication record, (3) well-funded, active research program, commensurate with level of experience, (4) skills in leadership and mentoring, and (5) ability to work cooperatively with University and extramural partners on research addressing issues in ocean science or ecology. Salary: negotiable. Close date: 10 Sept 2014. Contact: Dr. Dennis Hanisak [dhanisak@fau.edu](mailto:dhanisak@fau.edu).

## Section Officers, Committees and Representatives

### President

Meredith Bartron

[Meredith.Bartron@fws.gov](mailto:Meredith.Bartron@fws.gov)

### President Elect

Jeff Olsen

[Jeffrey.Olsen@fws.gov](mailto:Jeffrey.Olsen@fws.gov)

### Secretary/Treasurer

Wendylee Stott

[wstott@usgs.gov](mailto:wstott@usgs.gov)

Newsletter Editor

Joy Young

[Joy.Young@MyFWC.com](mailto:Joy.Young@MyFWC.com)

### Committees

Hall of Excellence

Jeff Olsen

James Wright Award

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Andrea Schreier

Carol Stepien

Listerve

Andrew Whitely

[awhiteley@eco.umass.edu](mailto:awhiteley@eco.umass.edu)

Stevan Phelps Award

Ken Currens

### Website

Wesley Larson

[wlarson1@uw.edu](mailto:wlarson1@uw.edu)

Kristen Gruenthal

[Kristen.gruenthal@noaa.gov](mailto:Kristen.gruenthal@noaa.gov)

### Representatives

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