



The American Fisheries Society
Genetics Section Newsletter

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President's message

It was great to see so many Genetics Section members at the annual AFS meeting in Little Rock. Congratulations again to our Phelps and Wright award winners, and thank you to the members of those committees. At the section business meeting we had a



Meredith Bartron, AFSGS President

great discussion about how to continue to make the section relevant, with an emphasis on how to improve communication within the section and to the broader community. The newsletter (thanks to Joy Young!) and list serve (thanks to Andrew Whiteley!) have been great avenues to disseminate information, but our website needs updating and we are searching for volunteers to make that more functional. To allow for input by members who aren't able to travel to the annual meeting, we will explore using phone or web conferencing capabilities at the next meeting in Quebec City. Please see the meeting minutes by section Secretary/Treasurer Wendylee Stott to catch up on what was discussed, and for a list of some of the volunteer opportunities within the section. The Genetics Section sponsored two excellent and very well attended symposium in Little Rock, thank you to all the participants who made those possible. Please consider organizing a symposium for Quebec City (contact Jeff Olsen, Jeffrey.Olsen@fws.gov). Also, please consider renewing your membership to the Genetics Section; membership dues provide funds for the Wright awards for student travel to the annual meetings.

Feature article by Travis Tuten

Florida's Southern Tessellated Darter: a Rare Case of a Common Fish



Figure 1. Southern Tessellated Darter collected in Orange Creek, Putnam County, Florida.

The Tessellated Darter, *Etheostoma olmstedi*, is a common freshwater fish distributed throughout most Atlantic drainages between Ontario, Canada, and Northern Florida. They are typically tan or light brown in color and have a series of 9 to 11 X- or W-shaped brown markings on the side (Figure 1). The Southern Tessellated Darter, *E. o. maculaticeps*, one of three recognized subspecies distinguished by having two anal spines versus one, ranges from the Cape Fear River Basin in North Carolina to Northern Florida (Cole 1967). However, the North Florida population is only known to occur in the Ocklawaha River Basin and is isolated from the next closest known population in the Altamaha River Basin, Georgia, by more than 200 km. Interestingly, the Southern Tessellated Darter is one of four freshwater fish species with a disjunct population in the Ocklawaha and/or St. Johns River basins (Burgess et al. 1977). These are considered remnant populations which persisted despite fluctuating sea levels that historically covered much of Florida during the Pleistocene.

The first record of Southern Tessellated Darters in Florida is from Davenport Landing in the Ocklawaha River mainstream in 1948 (McLane 1955). They have since been found

in small numbers at four additional locations including two sites in Orange Creek, the confluence of Eaton Creek and Ocklawaha River, and Little Orange Creek (Figure 2). However, Orange Creek is the only system where they have been regularly found, and they have not been collected at the Davenport Landing site since 1949. In addition, a dam was constructed on the Ocklawaha River in 1968 creating Rodman Reservoir, which impacts flows and levels of the Ocklawaha River and its tributaries. The reservoir lies in the middle of these collection sites, fragmenting suitable habitat and likely reducing the number of places previously occupied by the species (Gilbert 1992).

Florida has considered the Southern Tessellated Darter as a State-designated Species of Special Concern since 1979. In 2011, fish biologists from Florida Fish and Wildlife Conservation Commission (FWC), US Geological Survey (USGS), and US Fish and Wildlife Service completed a biological status review and recommended to list it as a State-listed Threatened Species based on the criteria of having a small population size, limited geographic range within Florida, and a fragmented occurrence from its closest conspecific population (FWC 2011). This prompted the FWC to draft a conservation action plan with a goal of improving the status of Florida's Southern Tessellated Darter population to a level where it is secure within its historic range. Toward achieving these goals, researchers with FWC, USGS, and the University of Florida are collaborating to 1) better describe the distribution, occurrence, and abundance of Southern Tessellated Darters in Florida and 2) use genetic methods to examine the level and timing of isolation of the Florida population from their closest conspecifics in Georgia and further north.

The survey method for Southern Tessellated Darters includes sampling with kick-seines at randomly chosen locations in tributaries and distributaries of the Ocklawaha

Feature article by Travis Tuten continued

Continued from page 2

River, Darters includes sampling with kick-seines at randomly chosen locations in tributaries and distributaries of the Ocklawaha River, from the Silver River to the St. Johns River. To date, only 16 Southern Tessellated Darters have been found, of which 13 are from historic or nearby sites in Orange Creek where they have been regularly collected in the past. The three additional specimens were captured at two new localities in Little Orange Creek.

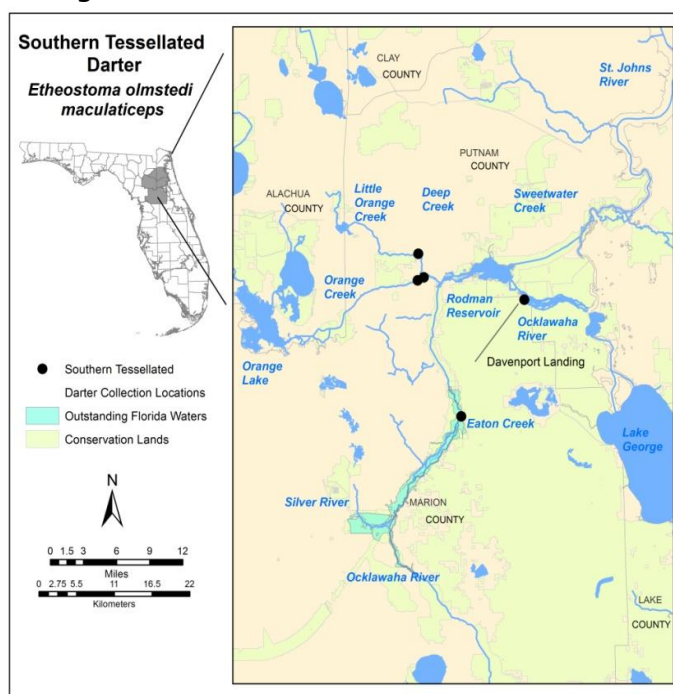


Figure 2. Map of Ocklawaha River Basin with locations where Southern Tessellated Darters have been collected in Florida between 1948 and 2012.

Sequence data from cytochrome b (mitochondrial DNA) and S7 (nuclear DNA) are being examined from these samples and compared to published sequences (Heckman et al. 2009), and with samples provided by Georgia Department of Natural Resources, South Carolina Department of Natural Resources, and North Carolina Museum of Natural Resources. Populations are being sampled from the Altamaha, Oconee, and Ocmulgee River drainages in Georgia, the Santee, Congaree, and Wateree River drainages in South Carolina, and the Cape Fear River drainage in North Carolina.

Populations from rivers and basins in South Carolina and North Carolina were chosen based on an approximate 200-km distance from the Altamaha River Basin and each other, which is roughly the same distance the Florida population is separated from the Altamaha River population.

These genetic data will provide a valuable addition to our understanding of the evolutionary history of Tessellated Darters. Heckman et al. (2009) found that *E. olmstedii* was paraphyletic, with two distinct clades represented by drainages from Connecticut to Southern Virginia and from North Carolina to Florida. However, few samples were used from the southern portion of their range, including Georgia and Florida.

The preliminary analysis found low haplotype diversity within the restricted area of occurrence in Florida. What remains to be determined is the level of differentiation between Florida darters and those in the closest known population to the north in the Altamaha drainage. Ultimately, this information will add to a scant body of knowledge on Southern Tessellated Darters in Florida and elucidate the evolutionary relationship of a disjunct population. Additionally, this information may help provide answers as to whether translocation of Southern Tessellated Darters from other states to supplement the Florida population has the potential to be a legitimate management action.

Additional information about this project can be seen at: [Southern Tessellated Darter Project](#)

Travis Tuten, James D. Austin, Mark A. Barrett, John S. Hargrove, Howard L. Jelks, Kevin G. Johnson, and Eric J. Nagid

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Announcements

The 2014 annual AFS meeting



It's not too early to begin thinking about the 2014 national meeting of the American Fisheries Society in Québec City, August 17-21. The latest call for papers and symposia is in the November 2013 issue of *Fisheries*:
http://fisheries.org/docs/fisheries_magazine_archive/fisheries_current.pdf

This year's theme is "From fisheries research to management: think and act locally and globally".

I encourage you to consider organizing a symposium and presenting. Symposia proposals are due January 10, 2014 and abstracts for contributed papers are due February 14, 2014. The national meeting is an excellent opportunity to highlight the growing use of genetics in management and conservation of fishery and aquatic resources. The genetics section will sponsor genetics-themed symposia by advertising through our listserv, newsletter and website, and by encouraging participation and attendance.

The national meeting is also a great opportunity for students to share their work with a broad audience and make professional contacts.

Hope to see you there.

Jeff Olsen

2014 Coastwide Salmonid Genetics Meeting

Juneau, Alaska June 3rd-5th

Draft Agenda

Monday, June 2, 2014 – travel day.
Welcome Social at 5:00PM outdoor Fish BBQ

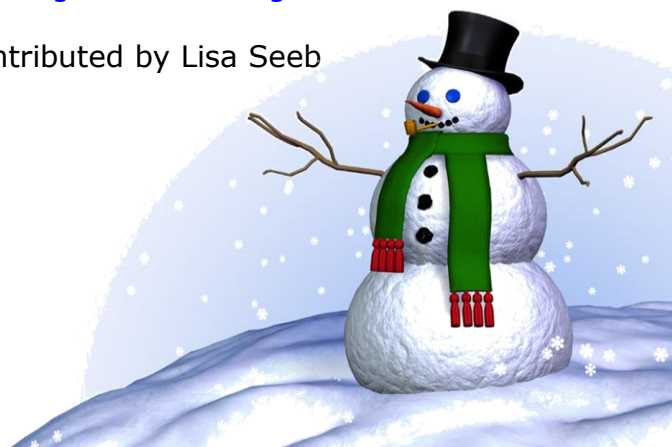
Tuesday, June 3, 2014 – UAS Lecture hall (Egan)
Morning Welcome and General Session 8:30-noon
Lunch – TBD,
Afternoon – General Session 1:30-5pm
Evening – Poster Session

Wednesday, June 4, 2014 UAS Lecture hall (Egan)
Morning – UAS Lecture hall (Egan) General Session 8:30-noon
Lunch at TSMRI Lena Point– Chances to visit the NOAA and UAF labs
Afternoon – Various activities TBD

Thursday, June 5, 2014 UAS Lecture hall (Egan)
Morning – General Session 8:30-12:30 AM
Afternoon – travel home, breakout sessions
TBD

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Contributed by Lisa Seeb



Feature article by Travis Tuten

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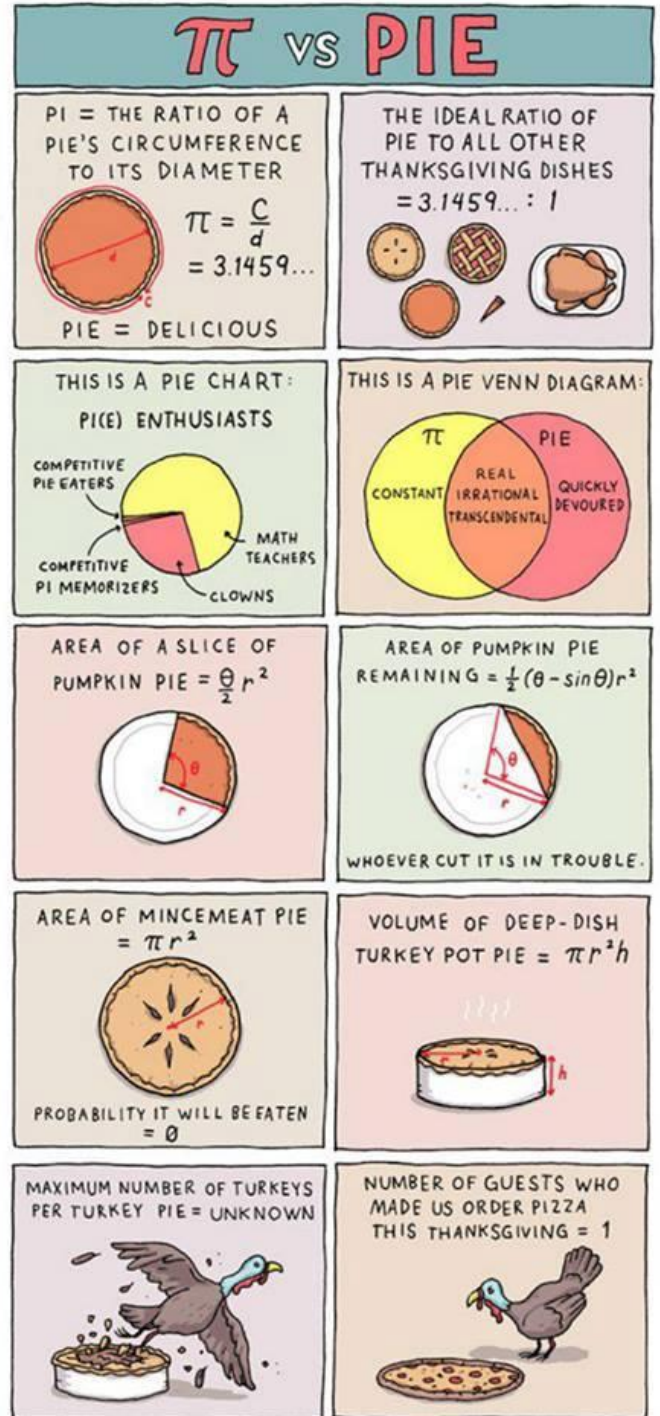
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Editor's ote

For the past year, I have been honored to serve as the newsletter editor for the Genetics Section of the American Fisheries Society (AFSGS). Thank you to all the people that have contributed feature articles, announcements, and event information for writing great columns and supplying important content for the AFSGS section members. It has been a pleasure working with such dedicated and supportive individuals. Thank you again for taking time to read the AFSGS newsletter. I appreciate all of your comments and feedback. Please send feedback to Joy.Young@myfwc.com.

Cartoon

In honor of the holidays



GRANT SNIDER

Cartoon by Incidental Comics.

2014 James E. Wright Award Winners



Photo credit: The Capital Newspaper

Cassidy Hahn

As part of a multiagency, collaborative study of emerging and legacy contaminants in the Great Lakes at Areas of Concern (AOCs) I am evaluating gene expression endpoints in wild smallmouth bass, largemouth bass, white sucker and brown bullhead. Fish have been collected throughout the Great Lakes region at AOCs ranging from

Duluth, MN to Rochester, NY. At each site, full fish health assessments were performed with tissue collections for both histological and gene expression analysis as well as blood for plasma and microsatellite analysis. Additionally, water and sediment have been collected and analyzed at many of our fish collection sites. As part of my dissertation work, whole transcriptome databases for each of these non-model species have been created and have allowed for the targeting of specific genes of interest and analysis using Nanostring Technologies. Similar in real-time PCR, Nanostring analysis provides quantitative data on the modulation of each gene of interest and is advantageous in that multiple genes can be examined in a single run. Data from these analyses will be used to make comparisons between species, seasons, and AOCs. In addition, this data will be evaluated in association with both water quality and histological endpoints in an effort to develop an early warning detection system for contaminant exposures.

The genetics section James E. Wright graduate award provided me with the travel assistance I needed to attend the National Meeting in Little Rock, AK. This was the first national meeting I have been able to attend since 2008 so I was especially excited to be a part of it. While in Little Rock, I attended a variety of talks related to the field of genetics with some of my favorites occurring in the session sponsored by the section on eDNA analysis. I'd like to extend a great big thank you to the genetics section for this award. Hope to see you all again next year!



Darren Wood

My master's thesis research investigates potential losses of brook trout (*Salvelinus fontinalis*) genetic diversity as a result of road culverts in Shavers Fork, West Virginia. Brook trout are the only native salmonid in West Virginia and a species of conservation concern throughout their native range due to decreased in-stream habitat, competition with non-native salmonids, and loss of cold water refugia. Additionally, there is substantial concern of culverts creating movement barriers, resulting in isolated populations of remnant brook trout. A prior study in West Virginia classified nearly all (97%) culverts as impassible or partially passable. Utilizing a suite of 13 microsatellite loci, I am examining potential genetic diversity changes of brook trout as a result of varying levels of culvert passability.

Receiving the James E. Wright award this fall was an overall humbling experience. During the week in Little Rock, I was able to meet with so many members of the genetics section and throughout this time, I felt so welcomed by everyone. After the conclusion of my presentation, I received good feedback from section members, and from these suggestions, I obtained new ideas for my research. Moving forward as an award recipient, I hope to challenge myself to learn new techniques and apply them to my current and future fisheries genetics research.

2014 Stevan Phelps Memorial Award Winners

On behalf of myself and my co-authors of the article entitled "Genetically derived estimates of contemporary natural straying rates and historical gene flow among Lake Michigan lake sturgeon populations (TAFS 141:1374-1388)" I would like to thank the award selection committee for choosing our manuscript to receive the Stevan Phelps Memorial Award for best genetics paper published in an AFS journal. This award is shared by numerous individuals and funding sources that contributed substantial time and resources to this research. As a student, having this manuscript recognized not only means a great deal to me, but is a testament to the outstanding mentorship of my co-authors that I was fortunate enough to enjoy. The below abstract summarizes the objectives and conclusions of our study.

Respectfully,
Jared Homola

Abstract

Natural rates of straying are difficult to quantify over large spatial scales using direct observations, particularly for long-lived fish species characterized by delayed sexual maturity and long interspawning intervals. Using multilocus microsatellite genotypes and likelihood-based statistical methods, we quantified rates of immigration and emigration for six genetically differentiated (mean $F_{ST} = 0.041$) lake sturgeon *Acipenser fulvescens* populations in Lake Michigan based on adults ($n = 437$) captured in tributaries during the spawning season. Estimated rates of straying were high (mean = 0.105), asymmetrical, and highly variable across populations. We found no significant association between the total length (a surrogate measure of age) of individuals that strayed and those that did not. Linear distance between streams was more predictive of straying rates and F_{ST} than least-cost distances estimated based on lakescape features (bathymetry and lake current



Kim Scribner accepts the Stevan Phelps memorial award on behalf of all authors at the 2013 national AFS meeting.

patterns). Historical rates of gene flow estimated using coalescent analysis indicated a fully parameterized model with variable evolutionarily effective population sizes (θ ; range, 0.684–0.989), and variable and nonsymmetrical migration rates best explained the genetic data. Comparatively high estimates of relative historical gene flow from several numerically depressed populations suggest that these populations were once larger contributors to basinwide gene flow than indicated by estimates of contemporary straying rates. High rates of interpopulation straying contrast with high F_{ST} , suggesting that straying rates are poor indicators of successful reproduction following dispersal.

**Congratulations
to the 2014 AFSGS
award winners!**

Business Meeting Notes

Monday, September 9, 2013
Grampas Room Hotel Marriott
Little Rock, Arkansas

1. Call to order at 17:05 by Meredith Bartron
2. Approval of 2012 minutes; President Bartron made a motion to suspend Robert's rules of order for the remainder of the meeting. Carried by Bill Templin.
3. President's Report
 - a. Meredith attended the Governing Board retreat, and Ron Essig (AFS First Vice-President) gave a summary. The attendees discussed options for the re-organization of the Board. Several options were presented, but the group decided to keep the same structure of the board, but will reduce the number of committees. The Board met the new Executive Director Doug Austen at the retreat. He brings a strong background in policy to the position and the Board is excited about the new direction he will be taking the AFS. The Western Division meeting is scheduled for April 7-11, 2014 in Mazatlán Mexico and there is still room for more symposia if anyone would like to submit a proposal for one.
 - b. Section activities
 - i. Over the last year the section has been trying to increase communication and have been encouraging student submissions to the section newsletter and other publications such as Fisheries. And there have been good articles in the last few issues of Fisheries by Marissa Jones and Wes Larson. Members are encouraged to submit to the section newsletter (Contact Joy Young, Joy.Young@myfwc.com) and/or any other publications, it is a good way to promote the section. The ExCom can help provide editorial support before articles are submitted if authors would like it.
 - ii. The by-laws for Hall of Excellence for the section were approved and we are ready to start accepting nominations. We need volunteers who would like to run for election to the nominating committee which will be composed of the past two presidents, the president elect, and the member-at-large. This election will occur during the next election cycle. If you are interested please contact Meredith Bartron (Meredith_Bartron@fws.gov) or Bill Templin (bill.templin@alaska.gov).
4. Treasurer's Report-Our balance is \$5,107.80 (see report attached to agenda).
5. Announcements
 - a. Rachael Ball is attending the meeting as part of an exchange program with the Fisheries Society of the British Isles. She gave a talk in the genetics symposium on Tuesday.
 - b. There was an informal section social on Tuesday at Bosco's.
6. Committee Reports
 - a. Standing Committees
 - i. Nominating-Bill Templin reported that nominations are now being accepted for the positions of Secretary Treasurer, President Elect, and the Member-at-Large for the Hall of Excellence.

Business Meeting Notes continued

- ii. Program Committee-Jeff Olsen reported that there are two symposia this year Applying genetic principles and technologies to the management and conservation of fishery and aquatic resources on Monday and Tuesday and Environmental DNA (eDNA) analysis- a new genetic tool for monitoring, managing, and conserving fishery resources and aquatic habitat on Thursday. He thanked presenters for the great talks that had been presented.
 - b. Ad-Hoc Committees
 - i. Newsletter-Joy Young reported that she is hoping to get newsletters on-line soon and is looking for more feedback to help her improve the newsletter.
 - ii. Membership-There is no current chair for this committee, the last chair was Eric Hallerman, so anyone interested in the position should contact Meredith Bartron (Meredith_Bartron@fws.gov).
 - iii. James Wright Student Travel Award-The award was presented by Amy Welsh to Cassidy Hahn and Darren Wood. Carol Stepien and Andrea were on the selection committee. Please encourage students in your institution to apply, if they are not a society member it may still be possible to apply as long as they pay section dues.
 - iv. Stevan Phelps Award-The award was presented on behalf of Ken Currens (the committee chair) by Meredith Bartron to Jared Homola, for the paper "Genetically Derived Estimates of Contemporary Natural Straying Rates and Historical Gene Flow among Lake Michigan Sturgeon Populations" by Jared Homala, Kim Scribner, Robert Elliott, Michael Donofrio, Jeanette Kanefsky, Kregg Smith, and James McNair (TAFS 141: 1374-1388). The rest of the committee was Patrick DeHaan, Amy Welsh, Adrian Spidle.
 - v. Website-Willy Eldrige reported that he is looking for some help with site maintenance, especially from someone with some website design skills. Also, the genetics section listserv is still active. If anyone is interested in using it or being added please contact Andrew Whiteley (awhitely@eco.umass.edu).
7. Old Business
 - a. HaMAR/Propagated Fish in Resource Management 2-Kim Scribner reported that there was a three day section sponsored symposium that was going to take a retrospective look a fish culture. The section had been approached for travel funds previously but was not able to afford them. This is a follow-up to PFIRM1 and will be followed up by a workshop, a publication, and policy statement for the Governing Board.
 - b. Volunteer Opportunities-The section is looking to improve communication at all levels; within the section, to the parent society, and to the public. We have the listserv, website, and a Facebook page (administered by Mike Garvin), if anyone is interested in helping with any of these please contact Meredith Bartron (Meredith_Bartron@fws.gov) or go post on Facebook.
8. New Business
 - a. A teleconference for the next section meeting might allow more members to attend, even if they are not at the meeting. The ExCom will look into setting something up in Quebec City.
 - b. The section would like to be more active in mentoring activities through the AFS' mentoring program. Loren Miller mentored a student through the Hutton program and said that it was fairly easy to apply and get started. Others are encouraged to consider this option for student help.
9. Adjournment-Moved by Eric Hallerman and seconded by Michael Douglas 18:20

Calendar

DECEMBER 2013

3^{1ST} Deadline. Student and professional travel award application for the Western Division of the American Fisheries Society (WDAFS) annual meeting.

JANUARY 2014

3rd-7th Meeting. Society for Integrative and Comparative Biology (SICB). Austin, TX.

13th-15th Meeting. American Society of Naturalists (ASN). Pacific Grove, CA.

22nd-26th Meeting. Southern Division of the American Fisheries Society annual meeting. Charleston, SC.

26th-29th Meeting. North Central Division of the American Fisheries Society annual meeting. Kansas City, MO.

APRIL 2014

7th-11th Meeting. Western Division of the American Fisheries Society annual meeting. Mazatlan, Mexico.

JUNE 2014

8th-12th Meeting. Society for Molecular Biology and Evolution (SMBE). Puerto Rico.

3rd-5th Meeting. Coastwide Salmonid Genetics. Juneau, Alaska

JULY 2014

7th-10th Meeting. Annual Symposium of the Fisheries Society of the British Isles: Integrated perspective on fish stock enhancement. Hull, England.

30th-Aug 3rd Meeting. American Society of Ichthyologists and Herpetologists (ASIH). Chattanooga, TN.

Aug 2014

3rd-7th Meeting. 11th International Congress on the Biology of Fish. Edinburgh, Scotland.

17th- 21st Meeting. Annual AFS meeting. Quebec City, Quebec.

Symposia

Workshop in Applied Phylogenetics

8-15 March, 2014. Bodega Marine Laboratory, Bodega Bay, California.

The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. For more information visit <http://treethinkers.org>

Graduate Level Field Course in Conservation Genetics

24 May- 8 June, 2014. Las Cruces Biological Station, Costa Rica.

The course will be taught by Jim Hamrick of the University of Georgia. The course is accredited, meaning students that participate will receive 2.0 academic credits. For more information visit <http://bit.ly/13AeiZC>

2 Day qPCR Course

5-6 Dec, 2014. University of Regensburg, Germany.

COURSE CONTENTS:

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

Jobs

Graduate positions

PhD Studentship: Genetic Management of the European Lobster. Agency: University of Exeter, UK. Description: This project is highly interdisciplinary - first using transcriptome sequencing to understand local/environmental adaptation in a key commercial species (The European lobster), and second reviewing current management practices throughout Europe, and assessing the implications of genetic management on the relatively stable institutions and structure of the fishery. For more information visit: <http://www.exeter.ac.uk/studying/funding/award/?id=1368>. Closing date: 10 Jan 2013. Contact Person: Dr. Amber Teacher. Contact email: a.teacher@exeter.ac.uk

PhD Studentship in Evolutionary Genetics. Agency: University of Montana. Location: Missoula, Montana. Description: Current research projects in the lab are focused on the genetic basis of reproductive isolation, molecular evolution, hybridization in natural populations, and adaptation to seasonally changing environments. For more information visit: <http://good-lab.dbs.umt.edu>. Closing date: 10 Jan 2013. Contact person: Dr. Jeffrey Good. Contact email: jeffrey.good@mso.umt.edu

Postdocs

Marie Curie Experienced Researcher Position at the Max Planck Institute for Developmental Biology. Location: London, England. Description: We are seeking a postdoctoral fellow to develop new methods to characterize intraspecific biodiversity using next-generation sequencing data. The project will focus on the development of analytical pipelines that can analyze NGS data generated from genotyping by sequencing approaches such as restriction site-associated DNA sequencing (RAD-seq) and multiplex amplicon panels. Salary-\$40,000/yr. Start date: 1 Jan 2014. Contact person: Robert Beiko. Contact email: beiko@cs.dal.ca

Postdoctoral Researcher on genetic monitoring of stocked European sturgeon in the Garonne and Dordogne Rivers. Agency: National research institute of science and technology for environment and agriculture. Location: The southwest of France. Description: The successful candidate will develop the methods of molecular biology and chose the appropriate parentage software among several available ones, according to their characteristics and applications. The primary goal is to determine the parents of young sturgeon released into rivers and recaptured. Closing date: 2 Dec 2013. Contact person: Marie-Laure Acolas. Contact email: marie-laure.acolas@irstea.fr

2014 Smithsonian Institution Research Fellowships in Evolutionary Biology. Agency: The Smithsonian Institute. Location: varies. Description: conduct research in association with Smithsonian scientists. Candidates are especially encouraged to apply for the new multi-year Peter Buck Fellowships. Fellows based at the National Museum of Natural History have access to a research staff of more than 100 scholars, world-class collections, and modern core facilities including molecular and stable isotope laboratories and SEM. Closing date: 15 Jan 2014. Contact website: <http://www.smithsonianofi.com/fellowship-opportunities/smithsonian-institution-fellowship-program/>

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

Jobs continued

Professional

Faculty Recruitment for a Multidisciplinary Initiative in Coastal and Marine Research. Agency: Florida State University. Location: New York New York. Description: This strategic effort seeks to recruit as many as nine tenure-track/tenured faculty, open with respect to rank. Areas of interest include, but are not limited to, ecosystem or community ecology, conservation biology, invertebrate/benthic ecology, plant or algal ecology, fisheries biology, marine mammalogy, (bio)geochemistry, geology, climatology, hydrology, shelf circulation processes and biotic/abiotic system modeling.

Review date: 15 Nov 2013 For more information visit: http://www.research.fsu.edu/ecosystems_search.

Research Scientist. Agency: Oceanic Institute. Location: Waimanalo, Hawaii. Description: Qualified candidates with experience and research interests outside of aquaculture are encouraged to apply, including recent post-docs. Closing date: open until filled. Contact person: Sharon stillman. Contact email: hr.oceanicinstitute.org. For more information visit: <http://www.oceanicinstitute.org>.

Asst. Professor of Fisheries Population Ecology. Agency: Dept. Wildlife, Fisheries and Aquaculture, MS State University. Description: Teach two undergraduate courses annually, with primary courses in Fisheries Management and Fisheries Science (generally taught in alternate years), and a course in the candidate's area of expertise (e.g., population dynamics). Develop a rigorous, extramurally-funded research program involving fisheries population ecology complementary to the Department's faculty. Research opportunities are expected to be available in freshwater and coastal fishery systems. Demonstrate an ability to communicate with a diversity of cultures and stakeholder groups. Support the land-grant mission of Mississippi State University. Work collaboratively with faculty within the College of Forest Resources at Mississippi State University and elsewhere. Closing date: open until filled. Contact person: Dr. Peter Allen. Contact email: pallen@cfr.msstate.edu

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Hall of Excellence
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James Wright Award
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Andrea Schreier
Carol Stepien

Listerve
Andrew Whitely

Stevan Phelps Award
Ken Currens

Website

William Eldridge

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PFIRM
Kim Scribner

Black Bass Symposium
Meredith Bartron

Fisheries
Marissa Jones