

The American Fisheries Society

Genetics Section Newsletter

Volume 23, Issue 3 August 2010



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President's Message

Dear Genetics Section Members.

Each fall the Annual Meeting of the American Fisheries Society provides opportunities for our Section membership to renew old acquaintances, develop new personal and professional contacts, and to recharge our batteries by attending workshops, symposia and contributed paper sections. I would strongly encourage everyone to participate in the meeting in Pittsburgh from September 12-16. Our Section's **Business Meeting will be held from 5:00 – 6:30 on Monday September 13th** in room 410 of the Convention Center.

Each year that Genetics Section presents several awards to outstanding students and colleagues in recognition of their contributions to the field. It is my pleasure to announce the co-recipients of the 2010 James E. Wright Graduate Award in recognition of excellence in graduate-level research in fisheries genetics. This year's co-recipients are **Matthew Krampe** (Southern Illinois University, Carbondale) and **Michael Sovic** (Ohio State University). **Kenneth P. Currens, Carl B. Schreck**, and **Hiran W. Li** are recipients of the Stevan Phelps Memorial Award for best genetics paper published in an AFS Journal in 2009 for their paper "Evolutionary Ecology of Redband Trout" published in Transactions of the American Fisheries Society 138: 797-817, 2009. All these awards will be presented at our annual Genetics Section (GS) meeting. Many thanks to Award Committee members **Jeff Olsen, Meredith Bartron** and **Eric Hallerman** (Wright Award) and **Ken Currens, Brian Sloss,** and **Chris Habicht** (Phelps Memorial Award).

I wish to thank the Section membership for the opportunity to serve as Section President. I have benefited greatly from this opportunity. Your support and citizenship has been greatly appreciated. I hope you will join me in welcoming **Bill Templin** as our New Section President. The gavel heads west in time for next year's annual meeting in Seattle. Bill will be stepping in at the business meeting next month.

Sincerely,

Kim Scribner; President, AFS Genetics Section

Job Ads: Faculty

The Professor (Open-Rank) in Ecology and Conservation Biology University of Toronto Scarborough

The Department of Biological Sciences invites applications for a tenure stream position (at the Assistant, Associate or Full Professor level) in Ecology and Conservation, to begin July 1, 2011. The successful applicant must have a strong publication record, evidence of a sustained and externally funded research program, and a proven commitment to graduate student supervision and training. Candidates with an active field program are especially encouraged to apply. The incumbent will be expected to take a leadership role in a planned Professional Master's graduate program in Conservation and Biodiversity. The University of Toronto is an international leader in biological research and education and the Department of Biological Sciences enjoys strong ties to other units within the University. More information about the multi-disciplinary department and its research can be found at www.utsc.utoronto.ca/biosci, as well as information on the graduate Department of Ecology and Evolution at www.eeb.utoronto.ca/graduate and the University of Toronto's Koffler Scientific Reserve at www.ksr.utoronto.ca/.

The successful candidate will demonstrate excellence in research and have a strong commitment to excellence in teaching at both the undergraduate and graduate level. They will also be expected to participate actively in the Graduate Department of Ecology and Evolutionary Biology at the University of Toronto, and to undertake an active research program centered at the University of Toronto Scarborough.

Salary will be commensurate with qualifications and experience. Applications must include a CV, statements of research and teaching interests and three representative publications. **Applications** must be submitted online http://www.jobs.utoronto.ca/faculty.htm (Job Number 1000523). We encourage applicants to combine PDF or MS WORD documents into one or two files. should also arrange that letters of reference from three referees familiar with the candidate's teaching and research be sent directly to: Professor Greg Vanlerberghe, Chair Department of Biological Sciences University of Toronto Scarborough 1265 Military Trail Toronto, ON M₁C 1A4 Canada or e-mailed biologygeneral@utsc.utoronto.ca. All materials must be received by Nov. 1st, 2010.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The University of Toronto offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Associate/Full Professor of Ecology, Evolution, and Environmental Biology Drexel University

The Department of Biology at Drexel University (www.drexel.edu/biology) invites applications for an anticipated tenure-track faculty position in the fields of Ecology, Evolution, and Environmental Biology. Applications at level of associate or full professor rank are encouraged. The Biology department will move to the Papadakis Integrated Sciences Building in July 2011 (www.drexel.edu/biology/news_ISB.html). Drexel has committed substantial resources for the department's growth over the next five years. Candidates with funded research programs who can synergize existing interests in the department will be given the highest priority. We are particularly interested in individuals addressing research questions related to: climate change; plant, terrestrial, or landscape ecology; environmental microbiology; evolution; paleobotany; or biodiversity.

The department is located on Drexel's main campus in the University City area of Philadelphia, where several academic institutions are concentrated in a rich and historic urban environment. Anticipated start date for the position is Sept. 2011. Applicants should have a PhD or DPhil. Apply online at www.drexeljobs.com/applicants/Central?quickFinds973; please attach CV, two-page statement of research interests & goals, one-page statement on teaching philosophy & experience, and contact information for three references. Application deadline is November 30, 2010.

For additional information about the Department of Biology's hiring process, please contact the Biology Search Committee, Dept. of Biology, Drexel University, 3141 Chestnut St., Philadelphia, PA 19104 (biology.search@drexel.edu). Drexel University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women, members of minority groups, disabled individuals, and veterans.

Chair in Evolutionary and Population Biology Dept of Genetics, Evolution and Environment; University College London

The Department of Genetics, Evolution and Environment at University College London is seeking to fill a Chair (full professorship) in Evolutionary and Population Biology. The job ad has appeared in the July 9 issue of *Science* and is pasted below.

We are looking for excellent candidates; we are open with respect to approaches used (theory, bioinformatics, experimentation), level of investigation (cellular to ecosystems) and career stage (successful mid- career scientists or established leaders in their field). *The closing date for applications is 3rd September 2010.*

The Department of Genetics, Evolution and Environment brings together scientists with interests in evolutionary, population and environmental biology, genetics, systems and theoretical biology and human genetics. The Department offers a dynamic and stimulating multi-disciplinary research environment and is part of a variety of cross-departmental and cross-institutional groupings within UCL and the wider London research landscape. From spring 2011, the department will be housed in re-furbished lab and office space on UCL's campus in the centre of London. For more information on the Department, please visit our website (http://www.ucl.ac.uk/gee). For informal enquiries, please email the Head of Department, Prof. Andrew Pomiankowski (a.pomiankowski@ucl.ac.uk).

Advertisement in Science July 9th

Chair in Evolutionary and Population Biology

The appointment will be full time on the UCL Professorial grade. The salary range will be negotiable on the professorial scale but not less than £61,713 per annum, inclusive of London Allowance. We invite applications from world class research scientists using theoretical or experimental approaches, with no restriction on organism or level of biological organization studied. The appointment is part of a major initiative to strengthen and diversify research activity in evolutionary, population and environmental biology in newly refurbished laboratories within UCL. The successful candidate will be expected to play a leadership role in this initiative and promote interaction across the diverse disciplines represented in the Department, the Division of Biosciences and across UCL, as well as co-ordinate efforts to respond to national and international funding initiatives. Furthermore, the successful candidate will play an important part in developing existing and new postgraduate training programmes and contribute to undergraduate teaching. The successful candidate will have an international reputation in an area of Evolutionary and Population Biology and a track record of running a successful research group, securing competitive funding over a number of years and publishing high impact original research articles. For further vacancy and how about the to apply online http://www.ucl.ac.uk/hr/jobs/ and search for Reference Number 1127113. Informal enquiries may be made to Professor Andrew Pomiankowski, tel: +44 (0)20 7679 7413; email: a.pomiankowski@ucl.ac.uk.

Closing Date: 3rd September 2010. Interview Date: Week commencing 11th October 2010. We particularly welcome female applicants and those from an ethnic minority, as they are under-represented within University College London at this level.

Scientist of Evolution, Diversity and Conservation of Fishes California Academy of Sciences, San Francisco

The California Academy of Sciences seeks an outstanding scientist to conduct innovative, externally funded research in the phylogeny, diversity, and conservation of fishes. We are particularly interested in individuals conducting rigorous field and laboratory-based analyses of key questions in evolution and conservation science, morphological, developmental, and biodiversity informatics using molecular, approaches in the context of phylogeny and global environmental change. Candidates should have a strong commitment to the curation, use and development of museum collections as a complement to their research and to participation in the Academy's public engagement programs. Relationships with local universities provide opportunities to participate in graduate and undergraduate teaching and training. Hires may be made at any level. Applicants should submit a curriculum vitae, statement of research goals, up to three publications, and contact information for three references by 15 October 2010 to casvert@calacademy.org. The California Academy of Sciences is an equal opportunity employer and welcomes applications from individuals who will contribute to its diversity.

Assistant Professor of Marine Fish Ecology University of Alaska Fairbanks

The Fisheries Division of the School of Fisheries and Ocean Sciences (SFOS) at the University of Alaska Fairbanks (UAF) invites applications for a tenure-track, full-time Assistant Professor in Fisheries with a primary interest in marine fish ecology. The position is based at our SFOS location in Juneau, Alaska. Applications are encouraged from creative individuals with strong scientific and academic expertise who will complement the expertise of existing faculty and contribute to the conservation and sustainable use of Alaska's marine fish resources.

The successful candidate will support the University's tripartite mission of teaching, research, and service. Applicants should be enthusiastic about teaching, and will be expected to teach undergraduate and graduate fisheries courses and mentor undergraduate and graduate students. Specifically, the successful candidate will be expected to develop and teach two undergraduate or graduate courses per year in fisheries, ichthyology, fish ecology, marine ecology or other areas of specialization in marine fish ecology. In addition, the successful candidate will be expected to teach one undergraduate or graduate seminar per year in an area of her expertise. The Fisheries Division is committed to revitalizing the fisheries baccalaureate program; the successful candidate will be expected to actively contribute to that effort. Additionally, the successful candidate will develop a dynamic, externally funded research program that utilizes innovative field, laboratory, or modeling approaches to examine the ecology of fishes in the marine ecosystems of Alaska. Possible focal areas include, but are not limited to, reproductive ecology, early life-history stages, trophic interactions of marine fish, and effects of environmental perturbations on fish populations. The successful candidate will be expected to build an externally-funded research program that provides support and training for graduate and undergraduate students. Predilection for interdisciplinary research, preferably through collaborative programs in Alaskan waters, is desirable. SFOS faculty are expected to provide public service to the nation, state, university and local communities by serving on university and advisory committees and participating in other university and community activities. The ability to interact professionally with biologists and managers in State and Federal agencies is essential.

UAF is Alaska's research university and Alaska's marine ecosystems offer phenomenal opportunities for marine fish ecology research. SFOS has over 60 faculty and over 125 graduate students engaged in research in Alaska waters and throughout the world (www.sfos.uaf.edu). SFOS offers full academic programs in Fisheries at the bachelors, master's and doctoral levels through classrooms and laboratories in Juneau, Fairbanks, Kodiak and Seward. These classrooms and other facilities throughout the state are linked by modern videoconference and distance-delivery technology. This position based at the SFOS Lena Point facility Juneau (http://www.sfos.uaf.edu/lenapoint/). This new building includes state-of-the art laboratories, including running seawater, and is located adjacent to a new NOAA Alaska Fishery Science Center, the Ted Stevens Marine Research Institute http://www.afsc.noaa.gov/ABL/default.php. This hire is part of our vision to strengthen our fisheries program in the school at both the graduate and undergraduate levels. Detailed information about the position can be found on the SFOS website at www.sfos.uaf.edu/employment

Qualifications: Qualified applicants must possess a Ph.D. in fisheries or ecology or a related field from an accredited university by the time of hire, must be proficient in English, have university-level teaching ability, and have a strong research and publication record appropriate to their experience and date of degree. Postdoctoral experience is highly desirable.

Last Date to apply: September 30, 2010

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Assistant or Associate Professor - Molecular Systematics & Ecology (Biology) Brooklyn College, of the City University of New York (CUNY)

Performs teaching, research, and guidance duties in area(s) of expertise as noted below. Shares responsibility for committee and department assignments, performing administrative, supervisory, and other functions as may be assigned.

The Department of Biology seeks a broadly trained biologist whose research will add to the breadth and depth of the department. The research should include systematic and molecular approaches in one or more of the following areas: systematics of microbial or other ecology, environmental biology, evolution, or behavior. This work should relate to the College's initiative in the urban environment, including urban marine estuaries. The faculty member will participate in teaching appropriate undergraduate and graduate courses that relate to his/her specialty. Development of a strong, competitive, research program that trains undergraduate and graduate research students and generates external grant funding is essential. Participation in the CUNY biology doctoral program is required.

This is a tenure-track position, with competitive salary and benefits to begin Fall Semester 2011. Lab space and start-up funds for research will be provided. The successful candidate will join a research-active department of 18 faculties with expertise in microbiology, molecular and cell biology, bioinformatics, and behavioral neurobiology.

Qualifications: Ph.D. degree in area(s) of expertise, or equivalent as noted below. Also required are the ability to teach successfully, interest in productive scholarship or creative achievement, and ability to cooperate with others for the good of the institution. An appropriate Ph.D. degree in biology or a related field is required. Post-doctoral experience with publications in peer-review biology journals; well-defined plan for developing an independent research program that will generate external funding and provide research training for undergraduate and graduate students; effective communication skills that will enable the candidate to teach at the undergraduate and graduate levels; and some appropriate teaching experience.

Please submit your application online as follows: Go to www.cuny.edu and click on "Employment." Search by Job Opening ID: 3202. Be sure to upload a cover letter, curriculum vitae. In addition, all applicants should arrange for three confidential letters of recommendation (referencing Job ID 3202) to be sent directly to: Mr. Michael T. Hewitt, Assistant Vice President of Human Resources, Brooklyn College, 2900 Bedford Avenue, Brooklyn, New York 11210-2889 -OR- BCjobs@brooklyn. cuny.edu. Open until filled with the review of applications to begin on October 16, 2010.

Job Ads: Post-docs

Deep-Sea Coral Genetics

I have an opening in my lab for a combination postdoc/lab tech position to work on genetics of deep-sea corals. The position could begin as early as Sept 1 and goes through May 6 with the possibility of a second full year. Candidates must have already completed their PhD.

Required experience: DNA/RNA extraction, PCR and sequencing Fluency in phylogenetics and/or population genetics software Excellent writing skills Willingness to help train graduate and undergrad students in basic lab methods Willingness to participate in field work (including travel of lengths as long as 4 weeks or more) Excellent data management skills Preferred Experience: Experience with octocorals and/or deep-sea corals Experience with bioinformatics

If interested, please send a CV, 1 page describing research experience and names of 3 refs to Amy Baco-Taylor, PhD; EOAS/Oceanography, 117 N. Woodward Avenue, P.O. Box 3064320, Tallahassee, FL 32306-4320, Phone: (850) 645-1547, Fax: (850) 644-2581, Email: abacotaylor@fsu.edu

Molecular Population Genetics and Ecology

Responsibilities: Position responsibilities involve development and assay of nuclearencoded microsatellites and of mitochondrial DNA sequences for projects involving population genetics and molecular ecology of marine fishes. Primary responsibilities include data acquisition and analysis, and preparation of reports and publications.

Qualifications: Dissertation or postdoctoral work in molecular population genetics and/or molecular ecology is required, as is experience with microsatellite and/or mtDNA data acquisition and analysis. Experience with major software programs (e.g., ARLEQUIN, GENEPOP, MIGRATE, LDNE, etc.) also is required.

Salary: Salary range is from \$32,000 - \$38,000/year and will depend on experience. Benefits include health care and retirement. Position is for 12-24 months. Closing date: Position will remain open until filled.

Contact: Send curriculum vitae, description of research experience, and names, addresses, phone numbers, and e-mail of three references to: Dr. John R. Gold, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas 77843-2258. Electronic submissions are acceptable: goldfish@tamu.edu. International applicants will be considered if they hold the correct visa(s).

Ecological and Environmental Genetics of Marine Species

We are seeking to recruit an enthusiastic and highly motivated Graduate/Postdoctoral researcher to work at the laboratory of Ecological and Environmental Genetics in Ravenna (University of Bologna, Italy). Main research topics include evolutionary biology and population genetics of marine species. The successful applicant will be involved in a new research project aiming to assess the relative importance of hydro-

geographic barriers, anthropogenic barriers and species' life history traits in determining genetic discontinuity zones and boundaries of species distribution along the Italian and neighboring Mediterranean coasts by means of intra- and inter-specific analysis of genetic structuring. The project will investigate levels of divergence and genetic structuring in marine species having different life history traits and will try to understand the distribution patterns of diversity to plan effective strategies to preserve and manage coastal marine biodiversity. With this aim a multi-markers (mitochondrial DNA and microsatellites), multi-species (e.g. molluscs, teleosts) and multi-scales (regional to local) innovative approach will be used. The position is a full time contract (net salary range 13000-15000 Euro per annum) available immediately for two years in the first instance, with the possibility after review to extend the contract for one or two years. Activities will be carried on under the supervision of Dr. Federica Costantini (www.ecology.unibo.it/page/federica.htm) and Prof. Marco Abbiati (www.ecology.unibo.it/page/marco.htm).

Candidates should have a working knowledge of English, good communication, teamwork and organizational skills as well as to be able to work independently. A strong background in molecular genetics laboratory techniques is required. Main duties include: sampling activities and management of tissues samples, DNA extraction, PCR amplification of mitochondrial / nuclear loci, sequencing, database management, troubleshooting during laboratory analyses. Candidates should have a Master's Degree in biological science or related fields.

The closing date for the application is August 31st 2010. The position will be filled from October 1st, 2010. For consideration, please email applications (including a cover letter outlining main research interests, a complete CV, a reference letter and contact info for two referees) to federica.costantini@unibo.it

Federica Costantini, PhD. Laboratory of Applied Ecology, Corso di Laurea in Scienze Ambientali, University of Bologna Via S. Alberto 163 I-48100 - Ravenna Italy

Other Job Advertisements

M.S. Research Assistantship - Alligator Gar Telemetry and Ecology Murray State University - Department of Biological Sciences

The research will examine the movements of alligator gar on several spatial and temporal scales. In addition, we will quantify habitat preference and diet. Many opportunities for collaboration and professional development with the Kentucky Department of Fisheries and Wildlife Resources will exist and are encouraged.

Qualifications: The candidate should have a strong interest in fisheries, or stream ecology. The candidate should have a degree in fisheries, ecology, biology, natural resources or related field. The candidate should have good communication and writing skills, a strong work ethic, and the desire to work in challenging field conditions. Experience operating watercraft/outboard engines is a plus.

Salary (stipend): \$12,000/yr

Start Date: Immediately Last Date to apply: January 5, 2011

Contacts: Please send (via email) letter of interest, resume, unofficial transcripts and

GRE scores and contact information for three references. The selected candidate will apply to the Biological Sciences program at Murray State University (http://www.murraystate.edu/qacd/cos/bio/bio_grad.htm) for admission.

The candidate will be advised by Dr. Michael Flinn. Materials should be sent to: Email: michael.flinn@murraystate.edu (preferred) or: Michael Flinn, Murray State University, 2112 Biology Bldg., Murray, KY 42071, 270-809-6051.

Fishery Research Program Associate Great Lakes Fishery Commission, Ann Arbor MI

Assist Science Director with research planning, contract administration, and fishery research projects in support of the Commissions Fishery, Sea Lamprey, and Science Transfer Research Programs. The successful applicant will help coordinate proposal review panels of scientists from Canada and the US. Incumbent will become familiar with a broad range of research projects that span the biological and social sciences. Two year renewable term; full benefits package

Qualifications: Incumbent must have basic background in biology, fishery biology, conservation, or a related discipline; be interested in fishery management; organizationally skillful; proficient with word processing and spreadsheets; and have excellent communication skills. Statistical background useful. Position available immediately.

E-mail application letter, vita, and references (3) to research@glfc.org

Salary: \$33,000 - \$37,000

Last Date to apply: September 30, 2010

Website: www.glfc.org

Contact: Sarah Seegert, e-mail: research@glfc.org (Preferred)

Quantitative Fisheries Scientist Columbia River Inter-Tribal Fish Commission, Portland OR

The CRITFC seeks a fishery scientist with a strong background in statistics and population dynamics to lead research efforts in the production and restoration of salmonids in the Columbia Basin. The incumbent will play a leading role in a program of several projects, mostly related to productivity and survival of salmonids and related ecosystem conditions. The position offers exceptional opportunities to develop, in collaboration with researchers from other agencies and universities, integrative approaches to important fish restoration issues. Complete application materials include a cover letter, CV/resume, a completed job application (available on our website at www.critfc.org "employment opportunities" on bottom left corner, or by calling 503-238-0667), a copy of relevant certifications and a list of at least three professional references. If a recent graduate, also submit a transcript of your course work.

Submit to: Columbia River Inter-Tribal Fish Commission Attn: Human Resources 729 NE Oregon, #200 Portland, OR 97232 Email: hr@critfc.org Fax: 503-235-4228 Additional Information: Phil Roger Manager, Fishery Science Department (503) 238-0667

Share Your News in the AFS Genetics Section Newsletter!

If you would like to advertise a symposium or job opening, or have your laboratory profiled, consider submitting to the AFS-GS newsletter. Simply contribute by emailing the editor at jcarlin@gustavus.edu on or before **February 1**. Or you can drop off your news with Joel at the Annual Meeting. See you in Pittsburgh!

Sincerely, Joel Carlin, Newsletter Editor

Calendar of Upcoming Events

August-September

- Aug 31 Deadline for symposium and workshop proposal submission for the 2nd International Marine Conservation Congress (IMCC2) to be held from 14-18 May 2011 at the Victoria Convention Centre, British Columbia, Canada. See http://www.conbio.org/Sections/Marine/.
- Sep 12-16 **140**th **Annual Meeting of the American Fisheries Society**. Westin Hotel and the David L. Lawrence Convention Center, Pittsburgh PA. See http://www.fisheries.org/afs10/.
- Sep 13 Annual Business Meeting of the AFS Genetics Section. 5-6:30pm in Lawrence Convention Center room 410.
- Sep 28-30 **Wild Trout X.** Holiday Inn, West Yellowstone MT. See http://www.wildtroutsymposium.com.

October

Oct 8-10 – **SEPEG 2010**, the southeastern population ecology and evolutionary genetics meeting, 4H Center in Madison FL. Registration begins Sep 1. See http://web.me.com/mlwayne/SEPEEG_2010/home.html.

November

- Nov 1 Application and abstract deadline for the 4th Strategic Conference of **Zebrafish Investigators**. To be held Jan 29 Feb 2 at Asilomar Conference Grounds, CA. See http://zmbe.uni-muenster.de/zebrafish2011/zebrafish_2011.pdf.
- Nov 10-13 14th Annual conference of the **European Elasmobranch Association**, Galway Ireland. See http://www.irishelasmobranchgroup.org/?page_id=397.
- Nov 11-14 91st annual meeting of the **Western Society of Naturalists**. Courtyard by Marriott, San Diego CA. See http://www.wsn-online.org/meeting.shtml.

December 2010 - February 2011

- Dec 1 Abstract deadline for the 2nd International Marine Conservation Congress (IMCC2) to be held from 14-18 May 2011 at the Victoria Convention Centre, British Columbia, Canada. See http://www.conbio.org/Sections/Marine/.
- Dec 13-17 Euro ISRS Symposium 2010: **Reefs in a Changing Environment**. Hof van Wageningen, Wageningen, the Netherlands. Poster abstract deadline is Oct 1.
- Jan 3-7 SICB 2011, the annual meeting of the Society of Integrative and Comparative Biology. Salt Lake City Marriott in Salt Lake City, Utah. See http://www.sicb.org/meetings/2011/.
- Jan 7-11 5th Intl Congress of the **International Biogeography Society**, Crete. See http://www.biogeography.org/html/Meetings/2011/index.html. Registration opens late August 2010.
- Jan 19 Application deadline for the North American Native Fish Association Conservation Research Grant Program. See http://www.nanfa.org/education/conservation/conservationflyer.pdf.
- Jan 29 Feb 2 4th Strategic Conference of **Zebrafish Investigators**. To be held at Asilomar Conference Grounds, CA. See http://zmbe.uni-muenster.de/zebrafish2011/zebrafish_2011.pdf.
- Feb 1 Submission Deadline for the **AFS Genetics Section Newsletter**. Contact the AFS GS editor at jcarlin@gustavus.edu.

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