



ISU

Department of Biological Sciences

Newsletter

**Idaho State
UNIVERSITY**

ANNOUNCEMENTS FOR THE WEEK OF DECEMBER 11, 2011

Please submit newsletter information to Pam at chripame@isu.edu

FACULTY/STAFF/OTHER MEETINGS

There will not be a **Department of Biological Sciences Faculty Meeting Tuesday, December 13, 2011.**

UPCOMING EVENTS

Remember the **Department of Biological Sciences Annual Christmas Party** is **Friday, December 16, 2011**, from **6:00-11:00 PM** at the **Elks Lodge** (Upstairs Banquet Rooms), 410 S. Main Street, Pocatello, Idaho. **Hope to see you there!**

PUBLICATIONS

*Bellmore, J. R., **C.V. Baxter**, A. Ray, L. Denny, E. Galloway, K. Tardy. In press. Assessing the potential for salmon recovery via floodplain restoration: an ecosystem level production budget analysis. Environmental Management.

*Benjamin, J.R. and **C.V. Baxter**. In press. Is a trout a trout? A range-wide comparison shows nonnative brook trout exhibit greater density, biomass, and production than native inland cutthroat trout. Biological Invasions.

McWethy, D.B., W.F. Cross, **C.V. Baxter**, C. Whitlock, and R.E. Gresswell. In press. Natural disturbance dynamics – shaping the Yellowstone landscape. Invited chapter In R.A. Garrott and P.J. White, editors. Yellowstone's wildlife in transition. Harvard University Press.

*Benjamin, J.R. K.D. Fausch, and **C.V. Baxter**. 2011. Species replacement by a nonnative salmonid alters ecosystem function by reducing prey subsidies that support riparian spiders. Oecologia 167(2):503-12.

*Lance, M.J. and **C.V. Baxter**. 2011. Abundance, production, and tissue composition of mountain whitefish (*Prosopium williamsoni*) in a central Idaho wilderness stream. Northwest Science 85(3):445-454.

*Marcarelli AM, **Baxter CV**, *Mineau MM, Hall RO. 2011. Quantity and quality: unifying food web and ecosystem perspectives on the role of resource subsidies in freshwaters. Ecology 92: 1215-1225.

Cross, W.F., **C.V. Baxter**, *K.C. Donner, E.J. Rosi-Marshall, T.A. Kennedy, R.O. Hall, Jr., H.W. Kelly, and R.S. Rogers. 2011. Ecosystem ecology meets adaptive management: food web response to a controlled flood on the Colorado River, Glen Canyon. Ecological Applications 21(6):2016–2033.

*Mineau, M.M., **C.V. Baxter**, *A.M. Marcarelli. 2011. A non-native riparian tree (*Elaeagnus angustifolia*) changes nutrient dynamics in streams. Ecosystems 14: 353-365.

Torgersen, C.E., **C.V. Baxter**, J.L. Ebersole, R.E. Gresswell. 2011. Incorporating spatial context into the analysis of salmon-habitat relationships. Gravel-bed Rivers: Processes, Tools, Environments, First Edition.

Edited by M. Church, P.M. Biron and A. Roy. John Wiley & Sons, Ltd.

*Yard, M.D., L.G. Coggins, **C.V. Baxter**, G.E. Bennett, and J.T. Korman. 2011. Trout piscivory in the Colorado River, Grand Canyon: Effects of turbidity, temperature, and fish prey availability. *Transactions of the American Fisheries Society* 140:471–486.

DEPARTMENT NEWS

Dr. Colden Baxter was invited and presented a lecture entitled, “Spatial complexity and connectivity in river-riparian food webs,” during travels in southern Europe at Universitat de Barcelona, Centre d'Estudis Avancats de Blanes, Spain; Université de Lyon, Limnological Institute, Lyon, France; Swiss Federal Institute of Aquatic Science and Technology, Zurich, Switzerland; and, then upon his return to the U.S., to College of Natural Resources at Utah State University, Logan, Utah.

OPPORTUNITIES

U.S. Department of Homeland Security (DHS) Summer 2012 Research Experiences for Undergraduates, Graduate Students, and Faculty. For more information go to: <http://www.orau.gov/dhseducationprograms>.

Duke's Nicholas School of the Environment is excited to announce an **online Virtual Information Session** for prospective students **interested in the Master of Environmental Management (MEM) or Master of Forestry (MF) degree program**. Learn about graduate opportunities in environmental field from one of the Nation's top environmental school. **NO MATTER WHERE YOU ARE LOCATED**, you can learn to earn a prestigious Master of Environmental Management or Master of Forestry degree from Duke University while in the comfort of your office or home. Session will be held using tele- and web-conferencing technology. Details will be provided prior to the event. **To Register:** http://www.nicholas.duke.edu/news/online-virtual-session?utm_source=click&utm_medium=web&utm_campaign=hpanouncement_box.

The Mickey Leland Energy Fellowship (MLEF) is a 10-week paid summer internship with opportunities in the US Department of Energy, Office of Fossil Energy, for women and minority students who are currently enrolled in Science, Technology (IT), Engineering, and Math majors at an accredited college or university. **MLEF MISSION:** Provide opportunities for educational advancement and career development through an award winning internship program for women and minority students in Science, Technology (IT), Engineering and Math. **ELIGIBILITY:** Applicants must be a US citizen; Undergraduate students completing their sophomore year in Spring 2012 through PhD candidates; Cumulative GPA of 3.0 or above. **APPLICATION: Application deadline is December 31, 2011.** The start date for the summer internship program is June 4, 2012. For more information about DOE/FE and to complete the MLEF application, please visit our webpage: www.fossil.energy.gov/education/lelandfellowships/index.html.

The City of Seattle, through its City Light Department, is soliciting applications for its **Wildlife Research Program (WRP)**. The WRP is a grant program that supports research on wildlife resources in the North Cascades ecosystem. It was established as part of federal licensing requirements for the Skagit River Hydroelectric Project. For complete information and application submittal requirements, please visit our website at <http://www.seattle.gov/light/environment/wildlifegrant/>. **The next deadline for pre-proposals is January 13, 2012.** If you have any questions, please contact Ron Tressler (Ron.Tressler@seattle.gov).

Mazamas Research Grant Funding is Available. The Mazamas, a 3,000-member Oregon mountaineering organization headquartered in Portland OR, is soliciting research grant proposals from scientists and their graduate students. Graduate Student Research Grants are up to \$1,500, and Standard Research Grants (typically awarded to university faculty members) can be up to \$3,500, from a total amount available this year of approximately \$15,000. **Grant applications deadlines: January 28, 2012**, for Standard Research

Grants; February 4, 2012, for Graduate Student Research Grants. **For grant application procedure and for additional information**, please visit this link: <http://www.mazamas.org/your/adventure/starts-here/research-grants>. This link will also show you the grants we have awarded in the past several years. **For more information**, please contact the Mazamas Research Committee. **Email:** mazama.research@mazamas.org. **Web:** www.mazamas.org. **Mailing Address:** Mazamas, 527 SE 43rd Avenue, Portland OR 97215. **Business Hours:** Monday-Thursday 10:00 AM - 7:00 PM and Fridays 10:00 AM - 2:00 PM. **Phone:** 503-227-2345.

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at federal laboratories and affiliated institutions. These awards include generous stipends ranging from \$42,000 - \$75,000 per year for recent Ph.D. recipients, and higher for additional experience and graduate entry level stipends beginning at \$30,000 and higher for additional experience. The awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals. Detailed program information, including instructions on how to apply online and a list of participating laboratories, is available on the NRC Research Associateship Programs Web site at: www.nationalacademies.org/rap. Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu. There are four review cycles annually. **Upcoming deadlines are: February 1, 2012.** Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

The Center for Environmental Farming Systems (CEFS) Summer Sustainable Agriculture Internship Program. This eight-week internship program (June 4 – July 27, 2012) provides undergraduate students with experience in hands-on field production, local community food systems, hands-on sustainable agriculture experiences and research that promote agricultural sustainability. Interns will become familiar with farming practices that promote Strong local food system networks; Sustainable production systems using available renewable resource-based technologies; Agricultural production systems of animal and crops that efficiently use energy and water in the biological systems; Efficient use of nutrient cycling in production systems; Diverse complementary production systems and season extension techniques; Community gardens for food and education in good food choices; Use of organic crop rotations, crop/animal integration, and natural systems for animal production. As part of their research experience, each intern will be mentored by NCSU, NCA&TSU and NCDA&CS faculty and staff from a variety of fields working in sustainable agriculture at CEFS. Student interns will be able to receive 6 credits from NCSU for the internship program. **The deadline to apply for the CEFS Summer Internship Program is Wednesday, February 1, 2012.** Visit the CEFS Website for more information! Contact Lisa Forehand (919-513-0954 or lisa_forehand@ncsu.edu) for more information!

Environmental Health Research Experience Program (EH REP) at the University of Washington Seattle. The Environmental Health Research Experience Program is a funded nine week, summer experience for undergraduates with interest in an interdisciplinary field that uses the tools of science to solve human health problems related to the environment. EHREP provides students with hands on experience in laboratories of leading researchers, introduces them to key environmental and occupational health issues while offering research exposure that will help them become competitive for graduate school. Students will work full-time under the supervision of a faculty mentor and will receive a stipend of \$5,200. Students underrepresented in the sciences are strongly encouraged to apply. **The deadline for student applications is February 15, 2012.** Program poster: <http://depts.washington.edu/ehug/documents/ehrep2012.pdf>. Program website: <http://www.ehrep.washington.edu>.

The **NASA Idaho Space Grant** is now accepting **EPSCoR Fellowship Applications**. Students pursuing a master or doctoral degree at Idaho State University are encouraged to apply. Applicants must be a U.S. citizen or have permanent residency, must collaborate with a faculty member or research group conducting NASA related research and have an undergraduate GPA of 3.0 or higher or a graduate GPA of 3.5 or higher.

Deadline for applications is Monday, March 5, 2012 at 5:00PM PST. Awards are up to \$17,500 for the academic year. \$2,500 of the \$17,500 is to be used for travel to a NASA center. The fellowships are granted for one academic year. Please see attached guidelines and use the following link to apply: <http://id.spacegrant.org/index.php?page=fellowships>. If you have any questions, please call Angela or Becky at (208) 885-6438 or reply to this email.

The NASA Idaho Space Grant Consortium (ISGC) is now accepting **Research Fellowship Applications**. Students pursuing a master or doctoral degree at one of the ISGC member universities are encouraged to apply. Applicants must be a U.S. citizen or have permanent residency, must collaborate with a faculty member or research group conducting NASA related research and have an undergraduate GPA of 3.0 or higher or a graduate GPA of 3.5 or higher. **Deadline for applications is Monday, March 5, 2012 at 5:00PM PST.** Awards are up to \$15,000 for the academic year. The fellowships are renewable annually upon completion of program requirements and are granted for a maximum of two academic years. Please see attached guidelines and use the following link to apply: <http://id.spacegrant.org/index.php?page=fellowships>. If you have any questions, please call Angela or Becky at (208) 885-6438 or reply to this email.

The **NASA Idaho Space Grant Consortium (ISGC)** is now accepting **Scholarship Applications**. Students pursuing a baccalaureate degree at one of the ISGC member universities are encouraged to apply. Applicants must be a U.S. citizen or have permanent residency, must be or entering into a science, math, engineering, science or math education discipline as a full-time student and have a cumulative GPA of 3.0 or higher. **Deadline for applications is Monday, March 5, 2012 at 5:00PM PST.** Awards amounts are made as follows: 1st year recipients: \$1,000; 2nd year recipients: \$1,500; 3rd year recipients: \$2,000; 4th year recipients: \$2,500. The awards are renewed annually based upon the completion of program requirements for a maximum of four academic years. Please see attached guidelines and use the following link to apply: <http://id.spacegrant.org/index.php?page=scholarships>. If you have any questions, please call Angela or Becky at (208) 885-6438 or reply to this email.

JOB OPPORTUNITIES

The **Idaho Department of Fish and Game** has an opening for **Fishery Manager, Production position in Boise, Idaho** on open competitive announcement until **Friday, December 16, 2011**. The announcement is located at the following link: https://labor.idaho.gov/DHR/ATS/StateJobs/jobannouncement.aspx?announcement_no=00780067256. Applications will only be accepted through this website.

Department of Microbiology at Oregon State University invites applications for a full-time, 12-month appointment as Instructor in Microbiology. Ph.D. is required. For full position announcement and to apply, see <http://oregonstate.edu/admin/hr/jobs>, posting 0008189. Closing date **January 1, 2012**.

The Florida Cooperative Fish and Wildlife Research Unit at the University of Florida is seeking **two (2) postdoctoral associates** to explore methods for optimal decision making in problems of natural resource management. Research will focus on the application of decision-theoretic approaches to: (1) the control of invasive exotics in South Florida; (2) the adaptive management of waterfowl harvests in the U.S. and northern Europe; and (3) habitat management for the threatened Florida scrub-jay. These projects will support management decisions made by the U.S. Park Service, the U.S. Fish and Wildlife Service, and signatory countries of the African-Eurasian Waterbird Agreement (<http://www.unep-aewa.org/about/introduction.htm>). Appointees will be responsible for developing ecological models describing the dynamics of relevant system states, optimizing state-dependent management actions, and exploring the sensitivity of optimal management strategies to various sources and degrees of uncertainty. Appointees will be expected to work closely with management agencies, to participate in relevant workshops, to present seminars at various venues, and to publish their research findings in a timely fashion.

Some travel is anticipated. No field work is required. **Enquiries should be directed to Dr. Fred Johnson at fjohnson@usgs.gov or 1-352-392-5075.**

Botany and silviculturist/ecologist positions now open at Sundance Consulting, Pocatello, Idaho, for the summer of 2012. Crews performing intensive inventory of non-forested areas of Forest Service administered lands. The work is very physically taxing. Long hikes normal and the plots often not close to maintained trails, requiring cross country hiking. Requires camping in the area where you are working and preparing your own food while in the field. Requires good team skills as each botanist will be paired with a silviculturist/ecologist to make a team. Good skills in using maps, compasses, clinometers, GPS units, and increment boring tools are necessary. Many of these skills can be taught during training if a candidate is lacking in a couple of skills. **Botanists should have the following skills:** Attention to detail; Good field identification skills; Willingness to work on identification of a plant until it is correct; Ability to read, understand and use a plant identification key; Willingness to be taught; Willingness to work with other botanists to help them in their identification skills; Willing to lead their team and take responsibility for any shortcomings in the data and/or data collection process; Good understanding of how to use maps. **Silviculturists/Ecologists should have the following skills:** Attention to detail; Know tree diseases and damage agents; Know how to increment bore trees; Be able to take direction from the botanist/team leader; Physically fit. **For more information contact: bcheney@sundance-inc.net.**

PAYROLL INFORMATION

Our next pay period ends Saturday, December 10, 2011. Please be sure to **submit your time by Monday, December 12, at 12 NOON.** This gives your approver time to approve your time card and fix any problems by **Tuesday, December 13, 2011,** when time cards are due to Payroll.