



## *Weekly Announcements for December 16-22, 2007*

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### *Faculty/Staff/Other Meetings*

There will **NOT** be a Biological Sciences Faculty Meeting on **Tuesday, December 18, 2007**.

### *Publications*

**Meldrum, D. Jeffrey.** Three-dimensional virtualization and archiving of hominid tracks. In: Kim, J.Y. and Kim, K.S. (eds.), 2007, Proceedings of the 2007 International Symposium on the Conservation and Application of Hominid Footprints, Dec 7-9th, Jeju Island, Korea, pp. 45-55.

### *Presentations*

**Dr. Colden Baxter** gave an invited seminar titled, "'Stressed out: Are multiple stressors driving meltdown in watersheds of western watersheds?'" at Southern Illinois University and Loyola University-Chicago on November 28-December 5, 2007.

### *Funding Opportunities*

#### **2008 DeVlieg Undergraduate Research Scholar Awards Available at Taylor Ranch Field Station**

The DeVlieg Undergraduate Research Scholar program provides an "inquiry based" learning opportunity at Taylor Ranch Field Station for outstanding undergraduates in natural resources fields. Idaho State University upcoming juniors or seniors (but not graduating seniors) in the Department of Biological Sciences are eligible to apply. DeVlieg Undergraduate Scholars write a scientific research proposal, conduct 10-12 weeks of research in the wilderness, and report on results in a written report and oral presentation.

Applicants must possess strong writing and time management skills, be self motivated, and be able to work independently in the wilderness around Taylor Ranch Field Station. A supervising faculty advisor will guide the student in refining a research topic and provide direction for proposal writing and report writing. Jim & Holly Akenson, Field Station Managers/Scientists will help students and faculty with development of research questions and field logistics, review a draft proposal, and mentor the student while at Taylor Ranch. One \$4,850 award is offered.

**Students interested in applying for the DeVlieg Undergrad Scholar Award should contact Colden Baxter at [baxtcold@isu.edu](mailto:baxtcold@isu.edu) by December 22, 2007 for additional information about the program and assistance in developing a research topic and connecting with a faculty advisor.**

**Research Proposal Deadline: Friday, February 8, 2008 by 9:00am in the Department of Biological Sciences Office.** Hard copy of proposal AS WELL AS electronic copy REQUIRED; email to Dr. Colden Baxter: [baxtcold@isu.edu](mailto:baxtcold@isu.edu)

## Notices

### VACANCY ANNOUNCEMENT

**Position:** Fisheries Biologist I / Fisheries Technician IV, Enhancement Division  
**Salary:** 33,071+ DOQ (GS 7/8/9) & excellent benefits package  
**Location:** Northwest Indian Fisheries Commission  
Olympia, Washington  
**Closing Date:** December 21, 2007

**Application:** Send resume and cover letter stating interest by **December 21, 2007** to: Michael Grayum, Executive Director, Northwest Indian Fisheries Commission, 6730 Martin Way East Olympia, WA 98516-5540.

**The University of Alaska (Anchorage-Fairbanks-Juneau) invites applications for Graduate and Post-doctoral Fellowships supported by NSF's Alaska EPSCoR research focus area in biology.** This fellowship program is part of a broader Alaska EPSCoR initiative entitled "Resilience and Vulnerability in a Rapidly Changing North: The Integration of Physical, Biological and Social Processes" which aims to fund integrative science concerning socio-ecological sustainability in the rapidly transforming northern regions. Through this graduate student and postdoctoral fellowship program in Biology we intend to support students working in the general research areas of biogeography, landscape & spatial genetics, plant-microbial interactions ecology & genetics of invasive species, and the influence of species interactions on range expansions. Students and postdocs interested in creative ways to integrate their research among the interests of biology faculty or with the social and/or physical components of the broader Alaska EPSCoR themes are encouraged to apply and outline these ideas in their applications.

**Graduate Fellowships** are for 1-2 years and include a stipend of approximately \$21,000/year plus health insurance and a tuition award. To be considered for a fellowship, students should contact UA faculty member(s) to discuss potential research, apply for graduate school at the appropriate UA institution, and apply for the fellowship with this application. The deadline to apply to the graduate school and for these fellowships is February 1, 2008. A copy of all materials should be sent to the student's faculty sponsor.

**Postdoctoral Fellowships** are for two years and include a salary of \$42,000/year with excellent benefits and \$12,000 a year in research funds.

See the full ad

<http://www.alaska.edu/epscor/bio.grad.postdoc.08-09.html>

**The Office of Research** issues a Call for Proposals from the Research Coordinating Council for Release Time Support for External Funding (RTSEF). The release time is for Academic Year 2008/2009. Proposals are due on **Monday, March 31, 2008**.

**A MS or PhD student is sought for a new DoD funded project to evaluate wind erosion of soil in disturbed rangelands, at Idaho State University, Pocatello.** Our overall research is examining rates of wind erosion, changes in erodibility, and factors affecting erodibility. Studies will be conducted mostly in the field, in participation with a team of geologists, ecologists, and modelers. The student will focus on hydroclimatology of wind erosion, including new approaches for measuring surface soil water. Students should be capable of working in the field, and have prior coursework or experience in soils, ecology, and climate instrumentation. Additionally, some exposure to theory and analysis of mass and energy exchange is desirable, such as formal coursework in atmospheric science, soil physics, micrometeorology, geomorphology, or engineering. The position can begin anytime. Interested students can contact Matt Germino, [germmatt@isu.edu](mailto:germmatt@isu.edu), 208-282-3285.

## STUDENT INTERNSHIPS IN CLIMATE CHANGE

Concerned about climate change? Wondering when world oil production will peak and what renewable energies are ready to step in? Want to improve the communication of sound science and policy on these topics to a global audience?

Here's your chance. We are looking for motivated individuals to become student **Encyclopedia Interns** on a major climate change initiative underway at the *Encyclopedia of Earth*

(<http://www.eoearth.org/>), a new electronic reference about the Earth, its natural environments, and their interaction with society. The *Encyclopedia* is a free, fully searchable collection of articles written by scholars, professionals, educators, and experts who collaborate and review each other's work. The articles are written in non-technical language and will be useful to students, educators, scholars, professionals, as well as to the general public.

The goal of this project is to build the Web's largest and most authoritative resource on climate change. **Encyclopedia Interns** will help harvest public domain content, copyedit articles, and otherwise assist authors and topic editors in producing and publishing articles. **Encyclopedia Interns** will learn the basics of Mediawiki software, the collaborative content platform that underlies Wikipedia, and work with researchers, educators, professionals, and other experts on climate change and related topics

The time commitment is flexible and you can work at home, your school's Food Court, Starbucks, or wherever you can grab an Internet connection.

You can see the current group of "e-scribe" Interns here: <http://www.eoearth.org/article/E-scribes>.

Here's your chance to make a difference and gain unique professional experience. Interested?

Contact Maggie Surface at [eoearth@eoearth.org](mailto:eoearth@eoearth.org).

## NHEERL Global Climate Change Research Report Published

*A Summary of NHEERL Ecological Research on Global Climate Change* reports on 14 years of research conducted by the Office of Research and Development at its National Health and Environmental Effects Research Laboratory (NHEERL) facilities. Edited by Dr. Peter Beedlow and Dr. David Tingey of NHEERL's Western Ecology Division, this compendium of research presents findings on how global climate change may affect terrestrial, freshwater, and marine ecosystems, as well as agriculture. The research described in this report has augmented the understanding of potential effects of global warming and rising levels of atmospheric carbon dioxide on natural and managed ecosystems.

To view the document, go to [http://www.epa.gov/wed/pages/publications/authored/GCC\\_report\\_web.pdf](http://www.epa.gov/wed/pages/publications/authored/GCC_report_web.pdf)





## Weekly Announcements for December 9-15, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will **NOT** be a Biological Sciences Faculty Meeting on **Tuesday, December 11, 2007**.

### Seminars

**Ken Aho**, ISU, will present his seminar, "Vegetation Habitat Analysis (VHA) for native revegetation of radically disturbed sites in the Northern Great Plains", **Thursday, December 13, 2007 at 4pm in L C 10**.

**Steve Seiler**, graduate student with **Dr. Ernest R. Keeley**, will present his PhD defense seminar, "Ecological and environmental investigations of competition between native Yellowstone cutthroat trout (*Oncorhynchus clarkii bouvieri*), rainbow trout (*O. mykiss*), and their hybrids," **Thursday, December 13, 2007 at 11am in the Plant Science Lecture Hall 114**.

**Kritika Chaudhari**, graduate student with **Dr. Shawn Bearden**, will present her master proposal seminar, "Sex Differences in Protection Against Myocardial Ischemia-Reperfusion Injury: Role of Cystathionin- $\gamma$ -Lyase and Hydrogen Sulfide", **Thursday December 13, 2007 at noon in LC 10**.

### Travel

**Dr. Terry Bowyer** will travel to Brookings, South Dakota, next week to give an invited seminar at South Dakota State University on predator-prey dynamics.

### Publications

**James E. Lee, Junelina Reed, Malcolm S. Shields, Kathleen M. Spiegel, Larry D. Farrell, and Peter P. Sheridan**. 2007. Phylogenetic analysis of Shiga toxin 1 and Shiga toxin 2 genes associated with disease outbreaks. *BMC Microbiology*, **7**:109.

### Presentations

The following Biological Sciences people will be presenting at the 2007 American Geophysical Union annual meeting in San Francisco CA, December 10-14, 2007.

**Germino MJ, Graumlich LJ, Maher EJ**. Recent relationships of tree establishment and climate in alpine treelines of the Rocky Mountains.

**Bansal S, Germino MJ**. Elevation and temperature effects on carbon balance near alpine treeline: comparison of a treeline and non-treeline tree species.

Glenn NJ, Sankey J, **Germino MJ**. Post-fire wind erosion in a semiarid shrub steppe.

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## *Funding Opportunities*

The Mazamas, a 3,000 member Oregon mountaineering organization headquartered in Portland OR, is soliciting research grant proposals from scientists and their graduate students. Our organization supports research projects in keeping with the purposes of the Mazamas, including the investigation of geologic features, biotic communities, and human endeavors pertaining to mountains, forests, rivers, and lakes. The Committee evaluates each proposal and awards grants to selected applicants in the spring of each year. Grants range from \$500 to as much as \$3,500 from a total amount available this year of approximately \$12,000. The Publications Committee may edit and publish the final report of each grantee's research in the Mazamas Annual Journal.

The Research Committee must receive grant applications by the deadlines listed on the web link below (late Jan or early Feb 2008).

To see our grant application procedure and for additional information, please see 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:

Mazamas Research Committee

527 SE 43<sup>rd</sup> Avenue

Portland OR 97215

Business Hours:

Mon-Th 10:00am - 7:00pm, Fri. 10:00am - 2:00pm

Phone: 503-227-2345, ext 1

Fax: 503-227-0862

Email: [mazama.research@mazamas.org](mailto:mazama.research@mazamas.org)

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## *Notices*

**The Office of Research** issues a Call for Proposals from the Research Coordinating Council for Release Time Support for External Funding (RTSEF). The release time is for Academic Year 2008/2009. Proposals are due on **Monday, March 31, 2008**.

A MS or PhD student is sought for a new DoD funded project to evaluate wind erosion of soil in disturbed rangelands, at Idaho State University, Pocatello. Our overall research is examining rates of wind erosion, changes in erodibility, and factors affecting erodibility. Studies will be conducted mostly in the field, in participation with a team of geologists, ecologists, and modelers. The student will focus on hydroclimatology of wind erosion, including new approaches for measuring surface soil water. Students should be capable of working in the field, and have prior coursework or experience in soils, ecology, and climate instrumentation. Additionally, some exposure to theory and analysis of mass and energy exchange is desirable, such as formal coursework in atmospheric science, soil physics, micrometeorology, geomorphology, or engineering. The position can begin anytime. Interested students can contact Matt Germino, [germmatt@isu.edu](mailto:germmatt@isu.edu), 208-282-3285.

**The Chicago Botanic Garden** is seeking qualified person (post graduation) to participate in their Conservation and Land Management Fellowship Program. The **Conservation and Land Management Fellowship Program** is a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service. Positions are available in the western United States beginning January and June, 2008. **Duties** may include: plant and wildlife monitoring and mapping; endangered species reintroduction; invasive species management; geographic data acquisition and analysis; biological assessments, sensitive species lists and conservation plans; fire ecology; land use planning; archaeology-related activities; recreation areas management; rangeland assessments; seed

collection.

Fellows participate in a one-week training course held in late May in Chicago. Travel and lodging expenses will be covered. **Training** includes: BLM/NPS/FS orientation; Endangered Species Act and associated programs; plant and animal identification and monitoring; GIS and mapping; and topographical map reading and GPS skills. **Compensation** is \$750.00/pay period (every two weeks).

**How to Apply:** Send a letter of interest, official school transcript(s), resume and three letters of recommendation as one package by February 15, 2008 (December 15, 2007 for the earlier start date) to:

Cynthia Scott  
CLM Fellowship Program  
Chicago Botanic Garden  
Division of Plant Science and Conservation  
1000 Lake Cook Road  
Glencoe, IL 60022  
Ph: 847-835-6917  
Fax: 847-835-5484  
[cscott@chicagobotanic.org](mailto:cscott@chicagobotanic.org)

**This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden.** For application information, visit: <http://www.plantbiology.northwestern.edu>

For more information visit the website:

<http://www.chicagobotanic.org/research/conservation/blm/>

## STUDENT INTERNSHIPS IN CLIMATE CHANGE

Concerned about climate change? Wondering when world oil production will peak and what renewable energies are ready to step in? Want to improve the communication of sound science and policy on these topics to a global audience?

Here's your chance. We are looking for motivated individuals to become student **Encyclopedia Interns** on a major climate change initiative underway at the *Encyclopedia of Earth*

(<http://www.eoearth.org/>), a new electronic reference about the Earth, its natural environments, and their interaction with society. The *Encyclopedia* is a free, fully searchable collection of articles written by scholars, professionals, educators, and experts who collaborate and review each other's work.

The articles are written in non-technical language and will be useful to students, educators, scholars, professionals, as well as to the general public.

The goal of this project is to build the Web's largest and most authoritative resource on climate change. **Encyclopedia Interns** will help harvest public domain content, copyedit articles, and otherwise assist authors and topic editors in producing and publishing articles. **Encyclopedia Interns** will learn the basics of Mediawiki software, the collaborative content platform that underlies Wikipedia, and work with researchers, educators, professionals, and other experts on climate change and related topics

The time commitment is flexible and you can work at home, your school's Food Court, Starbucks, or wherever you can grab an Internet connection.

You can see the current group of "e-scribe" Interns here: <http://www.eoearth.org/article/E-scribes>.

Here's your chance to make a difference and gain unique professional experience. Interested?

Contact Maggie Surface at [eoearth@eoearth.org](mailto:eoearth@eoearth.org).

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## Weekly Announcements for December 2 - 8, 2007

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### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty Meeting on **Tuesday, December 4, 2007**, at 12 noon in the Speech Pathology building room SPA 315.

### Seminars

**Dr. Jack Connelly**, Idaho Fish and Game and Biological Sciences Affiliate Faculty, will present his seminar, "VooDoo Science and the Conservation of Greater Sage-Grouse", **Thursday, December 6, 2007 at 4pm in Lecture Center 10.**

**Tiffany Whitney**, graduate student with Dr. Maureen Brandon, will be presenting her Ph.D. Defense Seminar, "SAGE: A powerful technique used to analyze gene expression in lung cancer cells and in *Dictyostelium amoeba*," **Friday, December 7 at 2:00pm in LC 15/17.**

**Steve Seiler**, graduate student with **Dr. Ernest R. Keeley**, will present his PhD defense seminar, "Ecological and environmental investigations of competition between native Yellowstone cutthroat trout (*Oncorhynchus clarkii bouvieri*), rainbow trout (*O. mykiss*), and their hybrids." on **Thursday, December 13, 2007 at 11am in the Plant Science Lecture Hall 114.**

### Travel

**Dr. Jeff Meldrum** will be an invited presenter at the International Symposium on the Conservation and Application of Hominid Footprints, held on Jeju Island, Korea, December 7-9, 2007. His paper is titled, "Three-dimensional Virtualization and Archiving of Hominid Footprints."

### Recognition

**Dr. Jeff Meldrum** was featured as *Scientific American's* profiled scientist in the December 2007 issue.

### Presentations

**Dr. James Groome** presented his seminar, "Sodium channelopathies in Brain and Muscle", to the NIH research group "BioCurrents" at the Marine Biological Laboratories in Woods Hole, MA on November 20, 2007.

**Sandhya Baviskar**, DA student and **Dr. Malcolm S. Shields** presented a workshop titled "Integrating Genetic Modification of Foods into Life Science Teaching" at 2007 Professional Development Conference organized by National Association of Biology Teachers (NABT) in Atlanta, GA on November 29, 2007

### Funding Opportunities

The Mazamas, a 3,000 member Oregon mountaineering organization headquartered in Portland OR, is soliciting research grant proposals from scientists and their graduate students. Our organization supports research projects in keeping with the purposes of the Mazamas, including the investigation of geologic features, biotic communities, and human endeavors pertaining to mountains, forests, rivers, and lakes. The

Committee evaluates each proposal and awards grants to selected applicants in the spring of each year. Grants range from \$500 to as much as \$3,500 from a total amount available this year of approximately \$12,000. The Publications Committee may edit and publish the final report of each grantee's research in the Mazamas Annual Journal.

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For more information, please contact the Mazamas Research Committee:

Mazamas Research Committee

527 SE 43<sup>rd</sup> Avenue

Portland OR 97215

Business Hours:

Mon-Th 10:00am - 7:00pm, Fri. 10:00am - 2:00pm

Phone: 503-227-2345, ext 1

Fax: 503-227-0862

Email: [mazama.research@mazamas.org](mailto:mazama.research@mazamas.org)

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## *Notices*

**ISU Student Activities, Idaho Public Television, and the Independent Television Service present a free film and speaker: MAPPING STEM CELL RESEARCH: TERRA INCOGNITA**

**WHEN & WHERE:** Tuesday, December 4, 5:30 to 7:00 P.M, Pond Student Union Bengal Theater

**HOW:** Free and open to the public.

**WHO:** For more information call 282-3154

Following the film, Prof. Shawn Bearden will engage the public in a discussion to explore issues raised in the film.

Will you help us publicize this screening and discussion to your classes?

Is extra credit for attending and participating in the event a possibility for your classes?

Some consider stem cell research the Holy Grail of regenerative medicine. Others feel it is morally wrong. But what would you do if your child became paralyzed from the waist down and you had access to the research that might allow her to walk again? Follow a respected neurologist through the unknown territory of stem cell research. Through the story of Dr. Jack Kessler, chair of Northwestern University's Department of Neurology and Clinical Neurological Sciences, and his daughter Alison, we bring the stem cell debate to the public for discussion. The film follows the constantly evolving interplay between the promise of new discoveries, the controversy of modern science and the resilience and courage of people living every day with devastating disease and injury.

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Chicago Botanic Garden  
Division of Plant Science and Conservation  
1000 Lake Cook Road  
Glencoe, IL 60022  
Ph: 847-835-6917  
Fax: 847-835-5484  
[cscott@chicagobotanic.org](mailto:cscott@chicagobotanic.org)

**This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden.** For application information, visit: <http://www.plantbiology.northwestern.edu>

For more information visit the website:  
<http://www.chicagobotanic.org/research/conservation/blm/>



# ISU Newsletter



Weekly Announcements for Feb. 28- Mar 3, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

## Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting **Tuesday, February 27, 2007 at noon** in the **Speech Pathology building in room 315**.

## Seminars

**Dr. Chris Cretekos**, The University of Texas, Histology position applicant, will present his seminar, “Hand of Man...Wing of Bat: Genetic mechanisms of Organ diversity between mammals”, **Monday, February 26, 2007 at 11 am** in the **Plant Sciences Lecture Hall 114**.

**Dr. Bill Jackman**, University of Colorado, Histology position applicant, will present his seminar, “The evolution of developmental mechanisms from amphioxus to zebrafish”, **Thursday, March 1, 2007 at 1 pm** in **Nursing 209**.

**Elizabeth Kolbert**, Staff writer for the New Yorker, will present a Q/A session with discussion on Science Writing, Climate Change, and the Science-Public Policy Interface, **Thursday, March 1, 2007 at 4 pm** in the **Plant Sciences Lecture Hall 114**.

## Awards

**Dr. Terry Bowyer** has been selected for the 2007 Caesar Kleberg Wildlife Research Institute Endowed Lectureship in White-tailed Deer Ecology and Management by Texas A&M University—Kingsville. He will travel to Texas in early May to give two presentations and interact with faculty and graduate students.

**Dr. Jeff Meldrum** has received matching awards totaling \$10,000 from Thomas & Susan Stepp and John Green funding the project, *3D Virtualization and Archiving of Footprints*.

**Marcarelli, A. R. Van Kirk, and C. Baxter**. “Coupling management of water quality and quantity: how do hydrology and biological activity interact to control nutrient concentration and export in an impaired Intermountain watershed?” Inland Northwest Research Alliance (INRA), \$62,000

## Publications

**Kelchner, S. A. and M. A. Thomas**. 2007. *Model use in phylogenetics: nine key questions*. Trends in Ecology and Evolution 22(2):57-110.

**Groome, J.R., Heidi M. Alexander, Esther Fujimoto, Megan Sherry, and David Petty.** 2007. Central Charged Residues in DIIS4 Regulate Deactivation Gating in Skeletal Muscle Sodium Channels. *Cellular and Molecular Neurobiology* 27, pp. 87-106

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## Presentations

**Amy Marcarelli** traveled to Santa Fe, NM February 4-10, 2007 to give a presentation entitled "Nutrients differentially affect biomass accrual, production, and activity of biofilm communities in a eutrophic Southeast Idaho river" with co-authors **Amanda Rugenski, Heather Bechtold, Richard Inouye and Colden Baxter** at the American Society of Limnology and Oceanography meeting.

**Dr. Colden Baxter** traveled to Boise State University on February 5, 2007 where he presented his seminar, "Integrating Earth and Life Sciences to Address Watershed Ecosystem Problems", to the Department of GeoSciences.

**Sonja Nehr-Kanet** and **Dr. Kathleen Spiegel** traveled to Louisville, Kentucky, February 22-24, 2007 to attend the ASCLS 23rd Annual Clinical Laboratory Educator's Conference (CLEC). Sonja presented a session (along with Linda Graeter, University of Cincinnati, College of Allied Health Sciences) entitled, "Distance Learning CLS Educational Courses and Programs: Structure, Quality, Relevance, and Availability?" In addition, Sonja's round table topic, "Bringing Research Back to the Profession" was so popular, that Kathy was asked to host an additional table with the same materials. Professional Doctorate Implementation Forum was also attended.

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## Events

**The Idaho Chapter of The Wildlife Society's 2007 Annual Conference**, "Navigating the Nature of the New West" will take place **March 5-7, 2007** in Pocatello, Idaho. The Biological Sciences Department will be presenting the following:  
National and Regional PARC Updates – **Chuck Peterson** (ISU, IMNH)

Herbivore optimization by North American elk: consequences for theory and management.  
**K.M. STEWART, R.T. Bowyer, and J.G. Kie.**

Genetic variation and population genetic structure of Townsend's bigeared bat (*Corynorhinus townsendii*) in southeast Idaho. **K. MILLER and M.D. Matocq.**

Footprint evidence for an unrecognized hominoid in the forest habitats of the Pacific and Inter-Mountain West. **D.J. MELDRUM and J. Mionczynski.**

Effects of estradiol, progesterone and prolactin on glycogen accumulation in the mink uterus.  
**E.D. MECHAM\*, J. Thomas and J. Rose.**

Reestablishing mountain quail into south-central Idaho. **R. TROY\*, J. Connelly, and D. Delehanty.**

Young bighorn (*Ovis canadensis*) males: can they successfully woo females? **J. Whiting, R.T. Bowyer, and J.T. FLINDERS\***.

Incubation rhythms of greater sage-grouse. **P.C. COATES\* and D.J. Delehanty.**

Seasonal response of elk to forest fuels reduction. **R.A. LONG\*, J.L. Rachlow, and J.G. Kie.**

Evaluation of techniques for categorizing group membership of white-tailed deer. **K.L. MONTEITH\*, C. L. Sexton, J.A. Jenks, and R.T. Bowyer.**

Using thermal landscapes to improve resource selection functions for black-tailed deer. **J.G. KIE and R.T. Bowyer.**

Sex differences in space use and group size of mountain sheep. **C. SCHROEDER\*, R.T. Bowyer, V. Bleich, and T.R. Stephenson.**

Group dynamics and timing of mating in American bison: effects of large males. **R.T. BOWYER, V.C. Bleich, X. Manteca, J.C. Whiting, and K.M. Stewart.**

Landscape use by greater sage-grouse: effects of habitat fragmentation. **J.F. SHEPHERD, K.P. Reese, and J.W. Connelly.**

Greater sage-grouse use of three tip sagebrush in south-central Idaho. **B. LOWE, D. Delehanty, and J. Connelly.**

Investigation chytridiomycosis in the boreal toad (*Bufo boreas boreas*) in Grand Teton National Park. **S. BRUER\*, S. St-Hilaire, P. Murphy, P. Sheridan, and C. Peterson.**

A “tail” of two streams: distribution and abundance of Rocky Mountain tailed frog tadpoles in two stream networks. **J.L. JONES\*, C.R. Peterson, and C.V. Baxter.**

Movement of prairie rattlesnakes in a mountainous landscape in central Idaho. **J. BAUDER\* and C.R. Peterson.**

Conservation biology of Great Basin rattlesnakes in sagebrush steppe ecosystems: landscape disturbance, prey availability, and rattlesnake reproduction. **C.L. JENKINS\* and C.R. Peterson.**

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## **Employment Opportunities**

**The GBRMPA is seeking a person who is innovative, seeks a challenge and who has the ability to lead a team.** You will apply social and economic information in the field of natural resource management, deliver client focused services and build partnerships with a range of people and organizations to deliver outcomes.

[http://www.gbrmpa.gov.au/corp\\_site/about\\_us/employment/pn352-361.html](http://www.gbrmpa.gov.au/corp_site/about_us/employment/pn352-361.html)

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**The Cooperative North American Shotgunning Education Program (CONSEP)** is looking for an individual who: 1.) Is a reliable worker capable of being trained in laboratory and field research methodologies which require careful attention to detail and the following of an established scientific protocol; 2.) Is capable of sometimes physically demanding field work, frequently at odd hours and odd days; 3.) Is preferably active in waterfowl and/or upland bird hunting but with a strong scientific inclination, and definitely not just looking for a temporary "bird hunting" job." Job begins as close as possible to September 10, 2007 (negotiable), and ends approximately February 28, 2008. May be extended if need arises, CONSEP Board and applicant are willing, and funding becomes available. For further details, contact Tom Roster, CONSEP Consultant, 1190 Lynnewood Blvd., Klamath Falls, OR 97601, Phone 541-884-2974, [tomroster@charter.net](mailto:tomroster@charter.net). Postmark resume, references (with current phone number for each), transcripts, and letter of interest by **March 23, 2007.**

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**Notices**

**COMBINED BIOLOGICAL SCIENCES SCHOLARSHIPS**

Includes: Biological Sciences Endowment, Edson Fichter, Dr. Barry L. Keller Memorial, and Albert Burch Strahan Memorial Scholarships

**Individual Scholarship: Information:** <http://www.isu.edu/scholar/allsch.shtml>

**Applications: Available at:** <http://www.isu.edu/scholar/forms/CombBiolApp.pdf>

**Due Date: March 1, 2007**

Call For Papers:

Idaho Academy of Sciences Annual Meeting and Symposium

**April 19-21, 2007** at the Idaho National Laboratory/University Place in Idaho Falls, Idaho.

Symposium Theme: Energy for the Future – Human & Ecological Considerations.

Full Information Website: [www.isu.edu/ias/](http://www.isu.edu/ias/)

**Nez Perce Tribe-Wolf Recovery Program**

It is that time of year again where they are looking for volunteers for the Gray Wolf Recovery Program to aid in the 2007 summer field season. This is a great opportunity to gain valuable field experience while working in rugged and beautiful Idaho.

**Applications will be accepted from March 15, 2007 until March 31, 2007.** For more information please contact Mary Allen at 208-634-1061 or email at [marya@nezperce.org](mailto:marya@nezperce.org).

**Call for Proposals:**

**Graduate Student Research and Scholarship Committee - Funding for Fall Semester 2007** Guidelines for the Preparation of Proposals to the Graduate Student Research and Scholarship Committee available through this website

<http://www.isu.edu/research/gsrsc.shtml> or from the Office of Research, Fine Arts Building, Room 205, 282-2714. (If you have any questions or need more information, you can contact

**Kelsey Metzger, representative for Biology on GSRSC.) DEADLINE FOR PROPOSALS SUBMISSION is 5:00 PM, Wednesday, March 21, 2007, to Office of Research, Fine Arts Building Room 205.**



ISU  
Department of Biological Sciences

# Newsletter



## Weekly Announcements for February 18-24, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting **Tuesday, February 20, 2007, at noon** in the **Speech Pathology building in room 315**.

### Seminars

**Dr. Robert Hall**, University of Wyoming, *Going Big: Scaling Ecological Concepts and Approaches from Streams to Rivers*, Thursday, **February 22, 2007, at 4 p.m.** in the **Plant Science Lecture Hall 114**.

### Publications

**Seiler, S. M. and E. R. Keeley.** 2007. *Morphological and Swimming Stamina Differences between Yellowstone Cutthroat Trout (*Oncorhynchus clarkii bouvieri*), Rainbow Trout (*Oncorhynchus mykiss*), and their Hybrids.* **Canadian Journal of Fisheries and Aquatic Sciences** 64: 127-135.

**Battiprolu, Pavan K., Kelli J. Harmon, and Kenneth J. Rodnick.** 2007. *Sex Differences in Energy Metabolism and Performance of Teleost Cardiac Tissue.* *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* 292:827-836.

**Stewart, Kelly M., R. Terry Bowyer, Roger W. Ruess, Brian L. Dick, and John G. Kie.** 2007. *Herbivore Optimization by North American Elk: Consequences for Theory and Management.* *Wildlife Monographs* 167: 1-24.

### Presentations

**Matt Germino** traveled to San Antonio, Texas, **February 5-7, 2007**, to give an invited symposium presentation entitled *Land-Use Disturbance and Bottom-Up Controls of Exotic Forbs in Great Basin Rangelands* with co-authors, **Judd Hill** and Jonathan Horton, at the **Weed Science Society of America Annual Meeting**.

The **Department of Biological Sciences** will be sending a number of students and faculty to the **American Fisheries Society Meeting** in Boise, **February 21-23, 2007**, including members from the newly formed **Portneuf Student Chapter of the American Fisheries Society**. Papers being presented:

**Joseph R. Benjamin.** *Differences between brook trout and cutthroat trout populations in tributaries of the Teton River and potential consequences for stream-riparian ecosystems.*

**Ryan Hillyard.** *Habitat selection of Bonneville cutthroat trout based on summer temperature regimes in the Bear River drainage of Idaho and Wyoming.*

**Ernest Keeley.** *Geographic patterns of introgressive hybridization between native Yellowstone cutthroat trout (*Oncorhynchus clarkii bouvieri*) and introduced rainbow trout (*O. mykiss*) in the South Fork of the Snake River watershed.*

**Michael Lance.** *The Ecological Significance of Mountain Whitefish (*Prosopium williamsoni*) in a Central Idaho Wilderness Stream.*

**Meredith Seiler.** *Identification of distinct populations of cutthroat trout (*Oncorhynchus clarkii ssp.*) across western North America using morphometric techniques.*

**Steven Seiler.** *The effect of competition by rainbow trout and cutthroat-rainbow hybrids on the performance of Yellowstone cutthroat trout.*

**Rachel L. Wilkinson.** *Aquatic-terrestrial connectivity in a wilderness watershed: Do Emerging Insects and riparian predators increase following wildfire?*

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## Proposals

Maschner, H., **M. J. Germino**, M. McCurry, and J. Rosentreter, and other senior scientists from ISU's Anthropology, **Biology**, Geology, and Chemistry Departments. 2006. *MRI: Acquisition of mass spectrometers and related equipment to create the ISU Interdisciplinary Lab for Elemental and Isotopic Analysis (ILEIA)*. NSF \$1,999,969.

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## Awards

**CONGRATULATIONS to Erin O'Leary-Jepson, Manager of the Molecular Research Core Facility, for her recent completion of the Certified Public Manager Program.** This 3-year program encompasses the following, "The Idaho Certified Public Manager (CPM) Program is a nationally accredited training and development program for public sector managers and supervisors in Idaho. It is a comprehensive course of study where public managers can acquire and apply the best practices and theory to their management behaviors and strategies, using a prescribed set of professional standards."

<http://www.dhr.idaho.gov/training/CPM.aspx> Beyond coursework, Erin developed an independent project that helped guide the recent expansion of MRCF along with continued improvements in workflow management.



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## Events

**The Idaho Chapter of the Wildlife Society announces the call for abstracts.** The meeting will be held **March 5-7, 2007**, at the Holiday Inn in Pocatello. For students that wish to attend, there is an opportunity to defray your registration costs. If interested, please contact Katie Miller at [millkati@isu.edu](mailto:millkati@isu.edu) or call at 282-5766 or 282-5715. Please visit [www.ictws.org](http://www.ictws.org) for more information about this meeting.

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## Department Stork Update

We have added several 'Bundles of Joy' to the department in the past month. **Elise Kaylynn**, granddaughter of **Tammy Pruett**, born January 17, 2007. **Torin Edward**, son of **Scot and Cyndy Kelchner**, born February 10, 2007. **Karson Eren**, grandson of **Tammy Pruett**, born February 12, 2007.

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## Employment Opportunities

### **Bureau of Reclamation - Department of the Interior**

**POSITION:** Biological Science Technician, GS-404-2/3/4 \$9.91 – 12.14 per hour

Enjoy challenging and diversified work. Earn \$\$\$ for college expenses.

**LOCATION:** Snake River Area Office, Cascade Field Station, Cascade, ID

**OPENING DATE:** 01/08/07

**CLOSING DATE:** 03/02/07

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**OPENING DATE:** January 8, 2007

**CLOSING DATE:** February 23, 2007

For additional information about these positions, contact Luz Moreno at 208/378-5160.

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**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for January 21-27, 2007

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### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting **Tuesday, January 23, 2007 at noon** in the **Speech Pathology building in room 315**.

### Seminars

**Dr. Michael Stark**, BYU, "A Neuron's First Steps: Molecular Cues in Early Nervous System Development", Thursday, **January 25, 2007 at 4pm** in the **Plant Science Lecture Hall, 114**.

### Awards

Katie Miller, graduate student with Dr. Matocq, was awarded \$5,400 from the Bureau of Land Management for her research, "Ecological Correlates of Genetic Structure of Townsend's Big-eared Bats in Southeast Idaho". This is the second award Katie has received for this project, totaling \$10,400 from the BLM over two years.

### Events

**The Idaho Chapter of the Wildlife Society announces the call for abstracts.** The meeting will be held **March 5 – 7, 2007** at the Holiday Inn in Pocatello. For students that wish to attend, there is an opportunity to defray your registration costs. If interested, please contact Katie Miller at [millkati@isu.edu](mailto:millkati@isu.edu) or call at 282-5766 or 282-5715. Please visit [www.ictws.org](http://www.ictws.org) for more information about this meeting.

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Be a fellow in ISU's prestigious National Science Foundation (NSF) funded GK-12 Program: Spend 15 hours/week with a 5-12 grade science, math or technology teacher during the 2007-2008 school year. Be a 'Scientist/Engineer in Residence' in a 5-12th grade classroom and work with your teacher partner to successfully guide your students through high quality inquiry based science, math and engineering projects. No prior teaching experience required. Applications due February 6th, 2007  
For an application and more information, visit <http://www.isu.edu/departments/gradk12/index.html>  
Questions? Contact Hannah Sanger at 282-6458 [sanghann@isu.edu](mailto:sanghann@isu.edu)

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**For additional information about these positions, contact Luz Moreno at 208/378-5160.**

**The Great Barrier Reef Marine Park Authority is Seeking Manager, Social and Economic Information Science Technology and Information Group**

Townsville, Queensland - Australia

EL1 Salary range \$77,330–\$83,198

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## Notices

### **Visiting Professionals Workshops or Field Trips 2007**

#### **Travel Grants Available for Taylor Ranch Field Station, University of Idaho**

The primary purpose of the Visiting Professionals Travel Grants is to provide a diversity of field oriented experiences for students working with natural resources professionals at Taylor Ranch Field Station (TRFS). A second purpose is to introduce professionals – university faculty, agency scientists, or educators – to Taylor Ranch Field Station to stimulate interest in development of future research or educational activities from the field station. The Visiting Professionals travel grants are provided through the DeVlieg Foundation.

Four grants of up to \$1,000 each are available to university faculty or natural resources professionals to pay for air charter travel expenses and TRFS lodging costs to present a workshop or hands-on training session for students at Taylor Ranch Field Station. Examples of activities that could be funded through this grant include 1) 4 days working with student interns and other students who are spending the summer at TRFS, 2) bringing a class to TRFS for a field trip, and 3) putting on a field oriented workshop at TRFS. Recipients will be selected to expand the range of research and education activities at TRFS and provide a diversity of experiences for students. Each grant recipient is responsible for developing and

presenting their educational program and after the workshop providing a short summary and photos of the activity to TRFS for use on a web page or other outlets. Summaries of previously awarded Visiting Professionals trips can be seen on the Taylor Ranch Field Station website <http://www.cnrhome.uidaho.edu/default.aspx?pid=88284>

To apply: Submit a 1-2 page summary of the proposed activity to Jim & Holly Akenson at [tayranch@hughes.net](mailto:tayranch@hughes.net). The summary should include the topic and description of activities, who the student audience is, number of participants, dates, and a cost estimate. Applications can be submitted at any time of year, but for earliest consideration for Summer 2007 email or mail your request by **February 15, 2007**.

Jim & Holly Akenson, Managers/Scientists  
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# Newsletter



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### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting **Tuesday, January 16, 2007 at noon** in the **Speech Pathology building in room 315**.

### Seminars

**Dr. Benedict Colombi**, ISU Anthropology, "The Nez Perce Tribe and the Extinction of Pacific Salmon: A Social Power Approach", **Thursday, January 18, 2007 at 4pm** in the **Plant Science Lecture Hall, 114**.

### Publications

**Huntly NJ**, Hanser SE. 2006. The Biogeography of Small Mammals of Fragmented Sagebrush-Steppe Landscapes. *Journal of Mammalogy*, 87(6):1165-1174

### Presentations

**Dr. Curt Anderson**, **Dr. Ken Rodnick** and the student in their labs had a good showing at the Annual Meeting of the Society of Comparative and Integrative Biology in Phoenix, AZ on January 3-7, 2007.

#### Papers and Posters Presented:

Durfee BD, Anderson CW, Rodnick KJ. Swimming performance and kinematics of wild juvenile coho salmon: Are there sex differences?

Rosa-Molinar E, Gonzalez-Cordero L, Anderson C. Kinematics and neural control of gonopodial thrusts in *Gambusia affinis affinis* (Baird and Girard 1853).

Waltz M, Blanchard J, Anderson CW. The role of body size and motor neuron size in the control of ballistic tongue muscle movements.

Battiprolu PK, Farrar RS, Harmon KJ, Pierson NS, Rodnick KJ. Sex differences in teleost cardiac biochemistry and physiology: What have we been missing?

Bollinger MT, Battiprolu PK, Rodnick KJ. Glycogen and proglycogen levels are higher in male versus female trout hearts.

Cotter PA, Everson JJ, Rodnick KJ. A novel assessment of hemodynamics in the intact trout heart.

Sorensen OJ, Battiprolu PK, Rodnick KJ. Epinephrine does not promote cardiac glycogen depletion in vitro in rainbow trout.

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### Proposals

**Dr. Matt Germino** requested \$205,000 from NSF for his project titled “Collaborative Research: LTREB - Alpine Treeline Stability in a Changing Global Environment.”

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### **Oregon Department of Fish and Wildlife**

#### **Principal Executive Manager**

#### **Education Services Section Manager**

The Education Services Section Manager reports to the Information and Education Division, whose purpose is to promote support for Oregon's fish and wildlife resources by fostering public understanding of and participation in programs that maintain and enhance those resources. The Information and Education Division is responsible for the following key functions: natural resource education, outdoor skills education, communications, special events and public involvement, and customer services.

Individuals interested in this opportunity should contact:

Oregon Department of Fish and Wildlife

Human Resources Division

3406 Cherry Avenue NE

Salem, OR 97303

Phone: (503) 947-6055

Fax: (503) 947-6050

**Application materials must be received by 5:00 p.m. on Friday, January 19, 2007.**

Please visit ODFW Web site at [www.dfw.state.or.us](http://www.dfw.state.or.us)

### **Birders Wanted!**

#### **Biological Technician Positions (12) GS-0404-5**

#### **Temporary Employment Spring 2007**

The Carlsbad Office of the U.S. Fish and Wildlife Service is recruiting biologists to conduct California gnatcatcher (CAGN) surveys throughout San Diego County, located in southern California. Surveys are planned for spring 2007. Employment will last 14 weeks beginning March 5, 2007. This may be adjusted one or two weeks forward depending on winter rains. If interested, contact Clark Winchell, Principal Investigator for the project, no later than **January 19, 2007**. Contact information is as follows: email [clark\\_winchell@fws.gov](mailto:clark_winchell@fws.gov), phone (760) 431-9400 ext 275, cell (760) 271-6839.

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## Notices

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**ISU**  
Department of Biological Sciences

# Newsletter



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The Biological Sciences Faculty meeting to discuss the promotions of Sue Galindo and Sonja Nehr-Kanet will be **Tuesday, January 9, 2007 at noon** in the **Speech Pathology building in room 315**. **Only voting faculty need to attend this meeting.**

### Seminars

**Dr. Jennifer Dunne**, Santa Fe Institute, "Conservation of Ecosystem Structure over Deep Time," on **Thursday, January 11, 2007 at 4pm** in the **Plant Sciences Lecture Hall, #114**.

### Publications

**DiCristina K, Germino MJ**. 2006. Correlation of neighborhood relationships, carbon assimilation, and water status of sagebrush seedlings establishing after fire. *Western North American Naturalist* 66(4): 441-450

### Awards

**Congratulations to Dr. Rosemary J. Smith** (PI) and co-PI's **Dr. Richard Inouye, Dr. Paul Beardsley** (Biological Sciences), and Dr. Larry Stout (Engineering). They were awarded \$1.8 million from the National Science Foundation to continue the successful Graduate Fellows in K-12 Education project. The NSF GK-12 grant will fund 33 Graduate Fellowships (\$30,000 + tuition) over the next three years for students in Biological Sciences, Engineering, Mathematics, Geosciences, and Chemistry as well as provide support for local K-12 teachers and students.

**Dr. Rosemary J. Smith** proposal to ISU's WeLEAD program (NSF Advance grant) was funded for \$14,972.00. The proposal is titled "Molecular genetic markers to study the behavior and ecology of burying beetles" and the abstract is available on the WeLead website. ([www.isu.edu/welead](http://www.isu.edu/welead)).

Congratulations to Biology grad students who were recipients of a spring 2007 GSRSC grant!

**Three Dissemination grants were awarded to:**

**Deborah Johnson**, "Adaptive Evolution and Functional Divergence of the Monosaccharide Transporter Gene Family in Arabidopsis and Rice."

**Jason Jones**, "The "tail of a frog: Factors influencing Rocky Mountain tailed frog (*Ascaphus Montanus*) distribution and abundance in two stream networks."

**Rachel Wilkinson**, "Aquatic-Terrestrial Connectivity in a Wilderness Watershed: Do Emerging Stream Insects Fuel Riparian Food Webs Following Wildfire?"

**Six Research Grants were awarded to:**

**Ryan Bellmore**, "Contribution of Floodplain Connectivity to Aquatic Ecosystem Productivity: A Study of the Effects of Dredge Mining and the Potential for Restoration in the Salmon River, Idaho."

**Sarah Bruer**, "Experimental exposure of the boreal toad (*Bufo Boreas Boreas*) to the fungal pathogen *Batrachochytrium dendrobatidis*."

**Heather Fitzpatrick**, "Quantitative Assessment of Pathogenic Genes in Local Wastewater Treatment Facilities."

**Evan Mecham**, "The Effects of Catecholestrogens on Glycogen Accumulation in the Mink Uterus."

**Kelsey Metzger**, "A Study of Genetic Variation in Human CCR5, a co-receptor for HIV-1 and a Marker of Susceptibility to symptomatic West Nile Virus."

**Madeleine Mineau**, "Autotrophy in Streams Revisited: Effects of a Riparian Invasive Plant on Stream Ecosystem Function."

The Biology grad students were awarded 50% of the total money awarded. Congratulations!

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## Proposals

**Dr. Matt Germino** requested \$120,121 from NSF for his Collaborative proposal with Diane Debinski (Iowa St U) titled "LTREB: Early Detection of Ecosystem Responses to Climate Change."

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## Events

**The Idaho Chapter of the Wildlife Society announces the call for abstracts.** The meeting will be held **March 5 – 7, 2007** at the Holiday Inn in Pocatello. For students that wish to attend, there is an opportunity to defray your registration costs. If interested, please contact Katie Miller at [millkati@isu.edu](mailto:millkati@isu.edu) or call at 282-5766 or 282-5715. Please visit [www.ictws.org](http://www.ictws.org) for more information about this meeting.

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## Employment Opportunities

**The Great Barrier Reef Marine Park Authority is Seeking Manager, Social and Economic Information Science Technology and Information Group**

Townsville, Queensland - Australia

EL1 Salary range \$77,330–\$83,198

**The GBRMPA is seeking a person who is innovative, seeks a challenge and who has the ability to lead a team.** You will apply social and economic information in the field of natural resource management, deliver client focused services and build partnerships with a range of people and organizations to deliver outcomes.

[http://www.gbrmpa.gov.au/corp\\_site/about\\_us/employment/pn352-361.html](http://www.gbrmpa.gov.au/corp_site/about_us/employment/pn352-361.html)

**Oregon Department of Fish and Wildlife  
Principal Executive Manager  
Education Services Section Manager**

The Education Services Section Manager reports to the Information and Education Division, whose purpose is to promote support for Oregon's fish and wildlife resources by fostering public understanding of and participation in programs that maintain and enhance those resources. The Information and Education Division is responsible for the following key functions: natural resource education, outdoor skills education, communications, special events and public involvement, and customer services.

Individuals interested in this opportunity should contact:

Oregon Department of Fish and Wildlife  
Human Resources Division  
3406 Cherry Avenue NE  
Salem, OR 97303  
Phone: (503) 947-6055  
Fax: (503) 947-6050

**Application materials must be received by 5:00 p.m. on Friday, January 19, 2007.**

Please visit ODFW Web site at [www.dfw.state.or.us](http://www.dfw.state.or.us)

**Birders Wanted!**

**Biological Technician Positions (12) GS-0404-5**

**Temporary Employment Spring 2007**

The Carlsbad Office of the U.S. Fish and Wildlife Service is recruiting biologists to conduct California gnatcatcher (CAGN) surveys throughout San Diego County, located in southern California. Surveys are planned for spring 2007. Employment will last 14 weeks beginning March 5, 2007. This may be adjusted one or two weeks forward depending on winter rains. If interested, contact Clark Winchell, Principal Investigator for the project, no later than **January 19, 2007**. Contact information is as follows: email [clark\\_winchell@fws.gov](mailto:clark_winchell@fws.gov), phone (760) 431-9400 ext 275, cell (760) 271-6839.

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**Notices**

**Visiting Professionals Workshops or Field Trips 2007**

**Travel Grants Available for Taylor Ranch Field Station,  
University of Idaho**

The primary purpose of the Visiting Professionals Travel Grants is to provide a diversity of field oriented experiences for students working with natural resources professionals at Taylor Ranch Field Station (TRFS). A second purpose is to introduce professionals – university faculty, agency scientists, or educators – to Taylor Ranch Field Station to stimulate interest in development of future research or educational activities from the field station. The Visiting Professionals travel grants are provided through the DeVlieg Foundation.

Four grants of up to \$1,000 each are available to university faculty or natural resources professionals to pay for air charter travel expenses and TRFS lodging costs to present a workshop or hands-on training session for students at Taylor Ranch Field Station. Examples of activities that could be funded through this grant include 1) 4 days working with student interns and other students who are spending the summer at TRFS, 2) bringing a class to

TRFS for a field trip, and 3) putting on a field oriented workshop at TRFS. Recipients will be selected to expand the range of research and education activities at TRFS and provide a diversity of experiences for students. Each grant recipient is responsible for developing and presenting their educational program and after the workshop providing a short summary and photos of the activity to TRFS for use on a web page or other outlets. Summaries of previously awarded Visiting Professionals trips can be seen on the Taylor Ranch Field Station website <http://www.cnrhome.uidaho.edu/default.aspx?pid=88284>

To apply: Submit a 1-2 page summary of the proposed activity to Jim & Holly Akenson at [tayranch@hughes.net](mailto:tayranch@hughes.net). The summary should include the topic and description of activities, who the student audience is, number of participants, dates, and a cost estimate. Applications can be submitted at any time of year, but for earliest consideration for Summer 2007 email or mail your request by **February 15, 2007**.

Jim & Holly Akenson, Managers/Scientists  
Taylor Ranch Field Station  
HC 83 Box 8070  
Cascade, ID 83611  
[tayranch@hughes.net](mailto:tayranch@hughes.net)  
<http://www.cnrhome.uidaho.edu/taylorranch.htm>  
1-254-543-9291

**Call For Papers:**

Idaho Academy of Sciences Annual Meeting and Symposium

**April 19-21, 2007** at the Idaho National Laboratory/University Place in Idaho Falls, Idaho.

Symposium Theme: Energy for the Future – Human & Ecological Considerations.

Full Information Website: [www.isu.edu/ias/](http://www.isu.edu/ias/)

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**Department Alumni News**

Ken Meeuwsen, MS (Biology, 1978) represented his mother, Louise, at the inaugural ArtRapids! Fine Arts Festival (Elk Rapids, MI) in June, 2006. He also has 2 pieces of his own art displayed in North Bridge Gallery, Bellaire, MI.



## Weekly Announcements for Nov.25-Dec. 1, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty Meeting on Tuesday, November 27, 2007, at 12 noon in the Speech Pathology building room SPA 315.

### Seminars

**Dr. Valley Stewart**, UC Davis, will present, "Two-component signal transduction control of anaerobic respiration in *Escherichia coli*," **Thursday, November 29, 2007 at 4 pm in Lecture Center 10**

**Christina Relyea**, graduate student with **Dr. G. Wayne Minshall**, will present her Dissertation Defense seminar, "Fine inorganic sediment effects on stream macroinvertebrates," **Friday November 30<sup>th</sup>, 2007 at noon in Lecture Center 10.**

### Presentations

**Drs. Peter Murphy, Sophie St-Hilaire, and Charles Peterson** attended a national conference titled "Amphibian Declines & Chytridiomycosis" in Tempe, Arizona, from November 5-7, 2007. Their presentation was titled "*Batrachochytrium dendrobatidis* is widespread in, and experimentally pathogenic to, Grand Teton boreal toads".

### Awards

**Drs. Peter Murphy, Sophie St-Hilaire, and Charles Peterson** received \$66,000 from USGS-NPS through the Northern Rocky Mountain Science Center (sponsor Dr. Steve Corn) for their project titled "Identifying factors driving the divergent effects of disease on amphibians in two rocky mountain ecosystems."

### Publications

Reese, K.P., and **R.T. Bowyer** (editors). 2007. *Monitoring Populations of Sage-Grouse*. College of Natural Resources Experiment Station Bulletin 88, Moscow, Idaho, 70 pp.

Reese, K.P., and **R.T. Bowyer**. 2007. Monitoring populations of sage-grouse: an introduction. Pages 1-2 in *Monitoring populations of sage-grouse*. College of Natural Resources Experiment Station Bulletin 88, Moscow, Idaho, 70 pp.

**Connelly, J.W.**, and M.A. Schroder. 2007. Historical and current approaches to monitoring greater sage-grouse. Pages 3-9 in *Monitoring populations of sage-grouse*. College of Natural Resources Experiment Station Bulletin 88, Moscow, Idaho, 70 pp.

Garton, E.O., D.M. Musil, K.P. Reese, **J.W. Connelly**, and C.L.O. Anderson. 2007. Sentinel lek-routes: an integrated sampling approach to estimate greater sage-grouse population characteristics. Pages 31-41 in *Monitoring populations of sage-grouse*. College of Natural Resources Experiment Station Bulletin 88, Moscow, Idaho, 70 pp.

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## *Funding Opportunities*

The Mazamas, a 3,000 member Oregon mountaineering organization headquartered in Portland OR, is soliciting research grant proposals from scientists and their graduate students. Our organization supports research projects in keeping with the purposes of the Mazamas, including the investigation of geologic features, biotic communities, and human endeavors pertaining to mountains, forests, rivers, and lakes. The Committee evaluates each proposal and awards grants to selected applicants in the spring of each year. Grants range from \$500 to as much as \$3,500 from a total amount available this year of approximately \$12,000. The Publications Committee may edit and publish the final report of each grantee's research in the Mazamas Annual Journal.

The Research Committee must receive grant applications by the deadlines listed on the web link below (late Jan or early Feb 2008).

To see our grant application procedure and for additional information, please see 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:

Mazamas Research Committee

527 SE 43<sup>rd</sup> Avenue

Portland OR 97215

Business Hours:

Mon-Th 10:00am - 7:00pm, Fri. 10:00am - 2:00pm

Phone: 503-227-2345, ext 1

Fax: 503-227-0862

Email: [mazama.research@mazamas.org](mailto:mazama.research@mazamas.org)

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## *Notices*

A MS or PhD student is sought for a new DoD funded project to evaluate wind erosion of soil in disturbed rangelands, at Idaho State University, Pocatello. Our overall research is examining rates of wind erosion, changes in erodibility, and factors affecting erodibility. Studies will be conducted mostly in the field, in participation with a team of geologists, ecologists, and modelers. The student will focus on hydroclimatology of wind erosion, including new approaches for measuring surface soil water. Students should be capable of working in the field, and have prior coursework or experience in soils, ecology, and climate instrumentation. Additionally, some exposure to theory and analysis of mass and energy exchange is desirable, such as formal coursework in atmospheric science, soil physics, micrometeorology, geomorphology, or engineering. The position can begin anytime. Interested students can contact Matt Germino, [germmatt@isu.edu](mailto:germmatt@isu.edu), 208-282-3285.

The Chicago Botanic Garden is seeking qualified person (post graduation) to participate in their Conservation and Land Management Fellowship Program. The **Conservation and Land Management Fellowship Program** is a partnership between the Chicago Botanic Garden, the Bureau of Land Management, National Parks Service and the USDA Forest Service. Positions are available in the western United States beginning January and June, 2008. **Duties** may include: plant and wildlife monitoring and mapping; endangered species reintroduction; invasive species management; geographic data acquisition and analysis; biological assessments, sensitive species lists and conservation plans; fire ecology; land use planning; archaeology-related activities; recreation areas management; rangeland assessments; seed collection.

Fellows participate in a one-week training course held in late May in Chicago. Travel and lodging expenses

will be covered. **Training** includes: BLM/NPS/FS orientation; Endangered Species Act and associated programs; plant and animal identification and monitoring; GIS and mapping; and topographical map reading and GPS skills. **Compensation** is \$750.00/pay period (every two weeks).

**How to Apply:** Send a letter of interest, official school transcript(s), resume and three letters of recommendation as one package by February 15, 2008 (December 15, 2007 for the earlier start date) to:

Cynthia Scott  
CLM Fellowship Program  
Chicago Botanic Garden  
Division of Plant Science and Conservation  
1000 Lake Cook Road  
Glencoe, IL 60022  
Ph: 847-835-6917  
Fax: 847-835-5484  
[cscott@chicagobotanic.org](mailto:cscott@chicagobotanic.org)

**This Fellowship opportunity may also be conducted as a research component of a Masters program with Northwestern University and the Chicago Botanic Garden.** For application information, visit: <http://www.plantbiology.northwestern.edu>

For more information visit the website:  
<http://www.chicagobotanic.org/research/conservation/blm/>



THINK SNOW



## *Weekly Announcements for November 11-17, 2007*

Please submit newsletter information to Susan at [ritysusa@isu.edu](mailto:ritysusa@isu.edu)

### *Faculty/Staff/Other Meetings*

There will be a Biological Sciences Faculty Meeting on Tuesday, November 13, 2007, at 12 noon in the Speech Pathology building room SPA 315.

### *Seminars*

**Katie Erin G. Miller**, graduate student with **Dr. Marjorie Matocq**, will present her Master's thesis defense seminar, "Connectivity, relatedness, and winter roost ecology of a vulnerable bat", **Thursday, November 15th at 10am in room Nursing 209.**

**Dr. Lane Rolling**, M.D. of Weber State University will present his seminar, "Tropical Medicine and Global Disease - A New Perspective," **Thursday, November 15, 2007 at 4pm in Lecture Center 10.**

**Allison Ray**, graduate student with **Dr. Tim Magnuson**, will present her PhD defense seminar, "Discovery and characterization of a novel anaerobe with a potential role in bioremediation of metal-contaminated subsurface environments," **Friday, November 16, 2007 at 1pm in Nursing 209.**

### *Presentations*

The following Doctor of Arts students attended The Emerging Researchers' Conference on Teaching and Learning at Oregon State University, November 2-4, 2007 and presented following:

**Noah Anderson:** Understanding the metacognitive processes of anatomy students.

**Erin Naegle:** Identifying student preconceptions concerning the interpretation of phylogenetic tree diagrams.

**Todd Hartle, Noah Anderson, Erin Naegle and Ellen Gerton:** Living in the Cracks: Exploring careers of interdisciplinary educational specialists in research science departments.

**Dr. Jeff Meldrum** was an invited speaker at a conference held in Jefferson, Texas, November 9-11, 2007. The title of his talk was, "A Survey of Alleged Yeti Tracks: Is the Himalayan Mystery on Sure Footing?" He also made a presentation to the sciences classes at Jefferson High School.

### *Awards*

**Joanne Crawford**, new PhD student with **Dr. Marjorie Matocq**, has won the Eastern Illinois University Graduate School Distinguished Thesis Award for her master's thesis entitled "Mating, Kinship, and Population Structure in Illinois Beaver Populations". She is also Eastern's nominee for the 2007 Distinguished Master's Thesis Award of the Midwest Association of Graduate Schools which will be announced early next year. Congratulations on this distinction, Joanne, and welcome to ISU!

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## *Funding Opportunities*

### **National Science Foundation - Major Research Instrumentation Program**

The National Science Foundation has released the 2008 Program Announcement for the Major Research Instrumentation (MRI) Program. The MRI program assists in the acquisition or development of major research instrumentation that is, in general, too costly for support through other NSF programs. Because this program only allows three submissions per institution, ISU will conduct an internal pre-proposal competition.

**Pre-proposals are due on November 26, 2007 at 12 noon in the Office of Sponsored Programs, 309 Fine Arts Building.**

Please visit: <http://www.isu.edu/grants/MRI2008.pdf> for the full Program Solicitation and the internal competition pre-proposal preparation instructions.

### **Department of Health and Human Services**

Centers for Disease Control and Prevention Centers for Disease Control and Prevention Field Trials to Evaluate Efficacy of Natural Products for the Control of the Tick Vectors of Lyme Disease Spirochetes Grant. <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=15797>

Centers for Disease Control and Prevention Centers for Disease Control and Prevention Evaluation of Reservoir-Targeted Vaccine Formulations to Prevent Enzootic Transmission of *Borrelia burgdorferi* (Lyme Borreliosis) Grant. <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=15798>

**CONTACT: Diana Schow**

**Grants/Sponsored Programs Specialist**

**ISU Office of Sponsored Programs**

**Phone: 282-3832**

**Fax: 282-4723**

**Email: [schodian@isu.edu](mailto:schodian@isu.edu)**

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## *Notices*

### **CALL FOR NOMINATIONS FOR DISTINGUISHED RESEARCHER AWARD 2008**

This is to announce the call for nominations for the Distinguished Researcher Award of 2008. This award will honor a faculty member who has contributed significantly to the research effort at Idaho State University. This person is honored at the commencement exercises as the Distinguished Researcher and will be given a cash award of \$2,500. The Faculty Research Committee will select a maximum of five (5) Outstanding Researchers from the nominees. The Distinguished Researcher will be selected from that group.

To implement the selection process, the Faculty Research Committee invites anyone who is familiar with a faculty member's research efforts to nominate that person for this award. Any full-time faculty member (tenured or not) who has made a significant, original/creative contribution to advancing the frontiers of knowledge in his or her field may be nominated. Please send a detailed letter of nomination, which addresses the selection criteria, to the Vice President for Research, Mail Stop 8130, Idaho State University, by **FRIDAY, November 16, 2007**.

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## *EVENTS*

**BGS Chili Lunch will be on Thursday, November 15th from 11am-1pm in the Biology Main Lobby.** Cost will be \$5 for chili, bread, and a drink. Feel free to bring your own bowl or use one that we provide. All money raised will support Biology graduate student travel to conferences and talks. If you have any questions please contact Amanda Fisher at [fishaman@isu.edu](mailto:fishaman@isu.edu).





## Weekly Announcements for November 4- 10, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be **three** special Biological Sciences Faculty meetings this week to discuss promotion and tenure. They will be as follows:

**Tuesday, November 6, 2007 at 12:00 noon** will be to discuss **Dr. Jim Groome's** promotion and tenure

**Tuesday, November 6, 2007 at 4 pm** to discuss **Dr. Maureen Brandon's** promotion

**Thursday, November 8, 2007 at 5 pm** to discuss **Dr. Rick Williams'** promotion and tenure

All meetings will be held in the Speech Pathology building, room 315.

### Seminars

**Dr. Debabrata Biswas**, CLS Boise faculty job candidate will present, "Mechanisms involved in the colonization of *Campylobacter jejuni* in the chicken gut and control strategies," **Thursday, November 8, 2007 at 12:00 noon in Lecture Center 10.**

**Dr. Sara Haggaland**, Albertson's College, will present her seminar, "Mechanisms of cadmium-induced osteotoxicity: Cadmium's impact on bone health," **Thursday, November 8, 2007 at 4 pm in Lecture Center 10.**

### Funding Opportunities

Department of Health and Human Services

Centers for Disease Control and Prevention Centers for Disease Control and Prevention Field Trials to Evaluate Efficacy of Natural Products for the Control of the Tick Vectors of Lyme Disease Spirochetes Grant <http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=15797>

Centers for Disease Control and Prevention Centers for Disease Control and Prevention Evaluation of Reservoir-Targeted Vaccine Formulations to Prevent Enzootic Transmission of *Borrelia burgdorferi* (Lyme Borreliosis) Grant

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppId=15798>

**CONTACT: Diana Schow**  
**Grants/Sponsored Programs Specialist**  
**ISU Office of Sponsored Programs**

**Phone: 282-3832**

**Fax: 282-4723**

**Email: [schodian@isu.edu](mailto:schodian@isu.edu)**

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## *Notices*

### **CALL FOR NOMINATIONS FOR DISTINGUISHED RESEARCHER AWARD 2008**

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To implement the selection process, the Faculty Research Committee invites anyone who is familiar with a faculty member's research efforts to nominate that person for this award. Any full-time faculty member (tenured or not) who has made a significant, original/creative contribution to advancing the frontiers of knowledge in his or her field may be nominated. Please send a detailed letter of nomination, which addresses the selection criteria, to the Vice President for Research, Mail Stop 8130, Idaho State University, by **FRIDAY, November 16, 2007**.



*Remember to vote on November 6*



## *Weekly Announcements for Oct. 28-Nov. 3, 2007*

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### *Faculty/Staff/Other Meetings*

There will be a Biological Sciences Faculty meeting Tuesday, October 30, 2007 at noon in the Speech Pathology building, room SPA 315. This meeting will be to discuss Mike Thomas' promotion and tenure.

### *Seminars*

**Dr. Mike Tercek**, Walking Shadow Ecology, will present his seminar, "Research on HOT topics in Yellowstone: Climate Change, thermal plants, and wolf-elk-willow interactions," **Thursday, November 1, 2007 at 4pm in Lecture Center 10.**

### *Presentations*

**Dr. Bill Akersten** presented, " The Jaguar Cave Entrance Fauna: ~40,000 BP High Altitude Microvertebrates near the Continental Divide in Eastern Idaho, " with co-authors Eric Yensen, College of Idaho, and Jim I. Mead, Northern Arizona University at a symposium honoring E.L.Lundelius, Jr. on October 17, 2007 during the annual meetings of the Society of Vertebrate Paleontology in Austin, Texas.

**Dr. Jeff Meldrum** presented a paper titled, "*Ichnotaxonomy of giant hominoid tracks in North America,*" on October 22-24, 2007, at the symposium on Cenozoic Tracks and Traces, held at the New Mexico Museum of Natural History, Albuquerque, New Mexico.

**Dr. Matt Germino** will present, " Post-fire wind erosion in semiarid shrub steppe: observations from field and remotely sensed data," with co-authors Joel Sankey, Nancy Glenn, on October 30, 2007 at the Geological Society of America Annual meeting in Denver, Colorado.

### *Travel*

**Dr. Jeff Meldrum** will be attending the American Association for the Advancement of Science - Pacific Division executive committee meeting in San Francisco, California on November 3, 2007.

**Dr. Matt Germino** will present, " Initial Results From Monitoring Wind Erosion in a Burned Semiarid Rangeland Environment," with co-authors Joel Sankey, Nancy Glenn on November 7, 2007 at the Soil Science Society of America Annual meeting in New Orleans, Louisiana.

### *Notices*

#### **CALL FOR NOMINATIONS FOR DISTINGUISHED RESEARCHER AWARD 2008**

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Outstanding Researchers from the nominees. The Distinguished Researcher will be selected from that group.

To implement the selection process, the Faculty Research Committee invites anyone who is familiar with a faculty member's research efforts to nominate that person for this award. Any full-time faculty member (tenured or not) who has made a significant, original/creative contribution to advancing the frontiers of knowledge in his or her field may be nominated. Please send a detailed letter of nomination, which addresses the selection criteria, to the Vice President for Research, Mail Stop 8130, Idaho State University, by **FRIDAY, November 16, 2007**.





## Weekly Announcements for October 21-27, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, October 23, 2007, at noon in the Speech Pathology building, SPA 315. This will be a special workshop with Steve Adkison. Pizza and beverages will be provided.

### Seminars

**Dr. Maureen Brandon** will present her promotion seminar, "Signaling, Sequencing and Learning," Thursday, October 25, 2007, at noon in Lecture Center 10.

**Dr. Rick Williams** will present his tenure and promotion seminar, "Costs and benefits in the evolution of plant reproductive traits: case studies of montane wildflowers," Thursday, October 25, 2007, at 4 p.m. in Lecture Center 10.

**Kira E. Pontius**, graduate student with Dr. Rosemary Smith, will present her Masters Defense seminar, "Changes in reproductive strategy in response to elevation in a burying beetle," Friday, October 26, 2007, at noon in Lecture Center 15/17.

### Presentations

The following Biology folks presented at the annual Snake River Association for Neuroscience conference at Sun Valley, Idaho, on October 11-13, 2007.

"Domain I and II but not domain III and IV voltage sensors couple activation to deactivation in skeletal muscle sodium channels" **Nishant Mohan and Dr. Jim Groome**

"The function of the submental muscle during neuromechanical control of feeding" Adam Robison, **Dan Puljan, Rakesh Mandal and Dr. Curt Anderson**

"Scaling of motor neurons in the rainbow trout, *Oncorhynchus mykiss*" **Ethan Feuerborn, Dr. Ken Rodnick and Dr. Curt Anderson**

"Integration of hypoglossal, glossopharyngeal and trigeminal neurons within the brainstem of the Marine toad, *Bufo marinus*" **Rakesh Mandal and Dr. Curt Anderson**

"Neuronal control of movement: what you may think is what you may see." **Dr. Jim Groome**

"So what DO we know about the brain?" **Dr. Curt Anderson**

## Events

### 20<sup>TH</sup> ANNUAL-2007 IDAHO CONFERENCE ON HEALTH CARE

Wednesday, October 24 - Friday, October 26, 2007

The conference is **free** to ISU Students, Faculty, and Staff (all participants must register to attend).

Visit [www.isu.edu/kchp.hlthconf](http://www.isu.edu/kchp.hlthconf) or call 282-3155 for registration information.

Sponsored by The Kasiska Foundation and ISU's Kasiska College of Health Professions.

## Notices

### CALL FOR NOMINATIONS FOR DISTINGUISHED RESEARCHER AWARD 2008

This is to announce the call for nominations for the Distinguished Researcher Award of 2008. This award will honor a faculty member who has contributed significantly to the research effort at Idaho State University. This person is honored at the commencement exercises as the Distinguished Researcher and will be given a cash award of \$2,500. The Faculty Research Committee will select a maximum of five (5) Outstanding Researchers from the nominees. The Distinguished Researcher will be selected from that group.

To implement the selection process, the Faculty Research Committee invites anyone who is familiar with a faculty member's research efforts to nominate that person for this award. Any full-time faculty member (tenured or not) who has made a significant, original/creative contribution to advancing the frontiers of knowledge in his or her field may be nominated. Please send a detailed letter of nomination, which addresses the selection criteria, to the Vice President for Research, Mail Stop 8130, Idaho State University, by **FRIDAY, November 16, 2007**.

**The Institute for Tropical Marine Ecology in Dominica, West Indies**, has received new grant monies for their 2008 programs and is now offering scholarships of up to \$4,000 off tuition for students who demonstrate financial need. More information can be found by visiting their website at <http://www.itme.org>

### Northwest Scientific Association 2008 Student Research Grant Competition

This is an opportunity to fund your research, organize a grant proposal, add substance to your CV, and potentially have your research published in the scientific quarterly, *Northwest Science*.

At its annual meeting, the Northwest Scientific Association awards **grants of up to \$1,500** to support student research in the pure and applied sciences conducted in the Pacific Northwest. Applicants must be student members of NSA (visit the NSA Web page at [www.vetmed.wsu.edu/org\\_nws/NWSci\\_Home.htm](http://www.vetmed.wsu.edu/org_nws/NWSci_Home.htm) for membership information). Grant monies may only be used to support travel, equipment, and supplies for student research. Submit proposals **by e-mail** to Dr. Katherine Glew (address below). Proposals must be submitted by midnight **February 1, 2008**.

**For complete information, read the instructions regarding proposal submission on the Northwest Scientific Association Web site:** [www.vetmed.wsu.edu/org\\_nws/NWSci\\_Home.htm](http://www.vetmed.wsu.edu/org_nws/NWSci_Home.htm)  
**Student Research Grant Committee Chair—Dr. Katherine Glew:** [kglew@u.washington.edu](mailto:kglew@u.washington.edu)  
(Mailing address: Dept. of Biology, Box 355320, University of Washington, Seattle, WA 98195)



## Weekly Announcements for October 14-20, 2007

Please submit newsletter information to Susan at [ritysusa@isu.edu](mailto:ritysusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, October 16, 2007 at noon in the Speech Pathology building, room SPA 315.

### Seminars

**John E. Stout**, Ph.D., USDA-ARS, Lubbock, Texas, will present, “**Observations of the Critical Threshold of Two Aeolian Surfaces**”, Wednesday, October 17, 2007 at 12:30 in PS 220. This is a joint Geosciences and Biology Seminar.

**Dr. Yongsheng Ma**, M.D., Ph.D, CLS Boise job candidate, will present, “**Virulence Factors and Their Regulation in Streptococcus pyogenes**”, Thursday, October 18, 2007 at Noon in Lecture Center 10.

**Dr. James Groome**, will present his promotion and tenure seminar, “**Sodium Channels: Studies on Dysfunctional Members of the Family**”, Thursday, October 18, 2007 at 4 pm in Lecture Center 10.

### Publications

**Bowyer, R.T.**, V.C. Bleich, X. Manteca, J.C. Whiting, and K.M. Stewart. 2007. Sociality, mate choice, and timing of mating in American bison (*Bison bison*): effects of large males. *Ethology* 113:1048-1060.

**Marcarelli A.M.** and Wurtsbaugh W.A. 2007. Effects of upstream lakes and nutrient limitation on periphyton biomass and nitrogen fixation in oligotrophic, subalpine streams. *Freshwater Biology* 52: 2211-2225.

### Events

**Peter Matthiessen will offer a public presentation entitled: *A Naturalist's Impressions of the Wildman***, on the evening of October 19, 2007 at 7:00 p.m., in the Goranson Hall, Fine Arts Building. Matthiessen is an author, naturalist, explorer, Zen priest, and living legend. He has published more than thirty books of fiction and nonfiction over fifty years. He writes about vanishing cultures, oppressed peoples, exotic wildlife and landscapes. "Peter Matthiessen is one of the shamans of literature," says John L. Cobbs in *Dictionary of Literary Biography*. "He puts his audience in touch with worlds and forces which transcend common experience." From the high valleys of the Himalayas to the forests of the Pacific and Intermountain West, he shares the lore and enigma of the Wildman, the legendary Yeti and Sasquatch. Admission is free to students with ID; Faculty \$2; Public \$3.

A reception will be held for Matthiessen in the Department of Biological Sciences conference room (229) Friday, Oct. 19, 2007, from 12:00 noon to 1:00. Those faculty and graduate students wishing to attend contact Jeff Meldrum (x4379).

## **TO RIVER FOLKS OF OUR COMMUNITY**

This fall's Portneuf River Clean Up is scheduled for the morning of Saturday, October 20th from 9-noon. Join us in this effort to improve our stewardship of the Portneuf! Our efforts will focus in and around Pocatello, along the greenway and river banks, but will also include (for those feeling adventurous, or who would like to combine this with boating) some removal of debris from within the river channel at key locations. If you can commit in advance, please email Colden Baxter, [baxtcold@isu.edu](mailto:baxtcold@isu.edu), so he can get a rough count of volunteers. Everyone will meet at 9 am the morning of the 20th at the Farmer's market site in Old Town. We expect the effort to take about 3 hours. We will split into at least four sub-crews that will get distributed as groups to target areas. The city will position several containers/dumpsters for us to use. We will have bags, nets for fishing out debris, and a few folks will have trucks with which we can transport larger items to the dumpsters. Bring boots and gloves. If you would like to provide a boat for this effort, please let Colden know. Finally, if you have identified areas you'd like to nominate for clean-up focus, let Colden know that also.

## **20<sup>TH</sup> ANNUAL-2007 IDAHO CONFERENCE ON HEALTH CARE**

**Wednesday, October 24-Friday, October 26, 2007**

The conference is **free** to ISU Students, Faculty, and Staff (all participants must register to attend).

Visit [www.isu.edu/kchp.hlthconf](http://www.isu.edu/kchp.hlthconf) or call 282-3155 for registration information.

Sponsored by The Kasiska Foundation and ISU's Kasiska College of Health Professions.

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### **Notices**

The Board of Directors for the National Ecological Observatory Network (NEON) unanimously accepted ISU's application to become an Institutional Member of that organization. Dr. Terry Bowyer will be the ISU representative to NEON.

### **CALL FOR NOMINATIONS FOR DISTINGUISHED RESEARCHER AWARD 2008**

This is to announce the call for nominations for the Distinguished Researcher Award of 2008. This award will honor a faculty member who has contributed significantly to the research effort at Idaho State University. This person is honored at the commencement exercises as the Distinguished Researcher and will be given a cash award of \$2,500. The Faculty Research Committee will select a maximum of five (5) Outstanding Researchers from the nominees. The Distinguished Researcher will be selected from that group.

To implement the selection process, the Faculty Research Committee invites anyone who is familiar with a faculty member's research efforts to nominate that person for this award. Any full-time faculty member (tenured or not) who has made a significant, original/creative contribution to advancing the frontiers of knowledge in his or her field may be nominated. Please send a detailed letter of nomination, which addresses the selection criteria below to the Vice President for Research, Mail Stop 8130, Idaho State University, by **FRIDAY, November 16, 2007**.

**The Institute for Tropical Marine Ecology in Dominica, West Indies**, has received new grant monies for their 2008 programs and is now offering scholarships of up to \$4,000 off tuition for students who demonstrate financial need. More information on our programs can be found by visiting our website at <http://www.itme.org>

### **Northwest Scientific Association 2008 Student Research Grant Competition**

This is an opportunity to fund your research, organize a grant proposal, add substance to your CV, and potentially have your research published in the scientific quarterly, *Northwest Science*.

At its annual meeting, the Northwest Scientific Association awards **grants of up to \$1,500** to support student research in the pure and applied sciences conducted in the Pacific Northwest. Applicants must be student members of NSA (visit the NSA Web page at [www.vetmed.wsu.edu/org\\_nws/NWSci\\_Home.htm](http://www.vetmed.wsu.edu/org_nws/NWSci_Home.htm) for membership information). Grant monies may only be used to support travel, equipment, and supplies for student research. Submit proposals **by e-mail** to Dr. Katherine Glew (address below). Proposals must be submitted by midnight **February 1, 2008**.

**For complete information, read the instructions regarding proposal submission on the Northwest Scientific Association Web site:** [www.vetmed.wsu.edu/org\\_nws/NWSci\\_Home.htm](http://www.vetmed.wsu.edu/org_nws/NWSci_Home.htm)  
**Student Research Grant Committee Chair—Dr. Katherine Glew:** [kglew@u.washington.edu](mailto:kglew@u.washington.edu)  
(Mailing address: Dept. of Biology, Box 355320, University of Washington, Seattle, WA 98195)





Department of Biological Sciences

# ISU Newsletter



**Weekly Announcements for October 7 - 13, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, October 9, 2007 at noon in the Speech Pathology building, room SPA 315.

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## Seminars

Dr. Mike Thomas, ISU, will present his Tenure and Promotion seminar, "The role of natural selection in genome evolution", Thursday, October 11, 2007 at 4 pm in the Lecture Center Room 10.

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## Awards

Drs. Sophie St-Hiliare, Peter Sheridan, Malcolm Sheilds, John Eley, Pharmacy and Wendy Sealey, U of I, were awarded \$548K by the Idaho State Board of Education for their research, "The development of an oral delivery system for DNA vaccines in aquatic species". CONGRATULATIONS!!!!

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## Presentations

Dr. Matt Germino addressed the annual "Weed Summit" meeting at the Idaho Department of Agriculture in Boise, with an invited presentation and discussion on "Soil water, drought, and invasive forbs of semiarid lands", on Wednesdays, October 3, 2007.

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## Travel

Dr. Matt Germino will travel to University of Idaho in Moscow on Oct 11-13, 2007 to give a presentation entitled "Tree establishment in treelines of the Rocky Mountains: pattern, process, and climate responses" as part of their Climate Change seminar series.

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## Events

**Snake River Association for Neuroscience Fall Conference 2007**  
Thursday 5:00 p.m. October 11<sup>th</sup> - Saturday, 12:00 noon October 13<sup>th</sup>

Sun Valley Resort in Sun Valley, ID

**CALL FOR ABSTRACTS: Abstract submissions due by September 12<sup>th</sup>.** Check our web site to submit your abstract: <http://www.isu.edu/departments/sran/>. The preliminary program includes an opening plenary talk by Dr. Curt Anderson, Idaho State University, entitled "So, what DO we know about the brain?" The keynote address Friday evening will be

presented by Dr. David Linden, John Hopkin's University, "The Accidental Mind."

**The 2007 Bioinformatics Workshop will be held, October 12 & 13, 2007.**

This year's theme is "Biomedical Bioinformatics" and features training sessions and research talks emphasizing the use of computation approaches for addressing data-intensive biomedical research issues. The keynote speaker is Michael Rosenberg of Arizona State University.

The Workshop will be held in Lava Hot springs at the Aura Soma conference facility. Due to the generosity of our sponsors, the Workshop, receptions and banquet (Riverwalk Thai) are free for registered participants. Space is limited, of course - please contact Workshop organizers Mike Thomas (mthomas@isu.edu) or Heath Ogden (ogdet@isu.edu) to register. Rooms have been reserved at the adjoining motel (Oregon Trail) if you'd like to stay the night (\$59).

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### **Notices**

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**Student Research Grant Committee Chair—Dr. Katherine Glew:**

[kglew@u.washington.edu](mailto:kglew@u.washington.edu)

(Mailing address: Dept. of Biology, Box 355320, University of Washington, Seattle, WA 98195)



**Weekly Announcements for Sept 30-Oct. 6, 2007**

Please submit newsletter information to Susan at [ritysusa@isu.edu](mailto:ritysusa@isu.edu)

## Faculty/Staff/Other Meetings

There will **NOT** be a Biological Sciences Faculty meeting Tuesday, October 2, 2007.

## Seminars

**Dr. Nancy Grimm**, Arizona State University, will present a public lecture, "Urbanization of the desert: patterns and processes of a socioecosystem," October 3, 2007 at 7:30 pm in the Black Box Theatre in the Stephens Performing Arts Center. She will also present the Biological Sciences Department seminar, "A long-term perspective on biogeochemistry of desert streams," October 4, 2007 at 4 pm in Lecture Center 10. These lectures are being sponsored by the G.W. Minshall Lecture Series in Ecology.

## Publications

**Meldrum, D.J.** (2007) Ichnotaxonomy of giant hominoid tracks in North America. In: Lucas, Spielmann and Lockley, eds., Cenozoic Vertebrate Tracks and Traces. New Mexico Museum of Natural History and Science Bulletin 42:225-231.

**Meldrum, D.J.** (2007) Renewed perspectives on the Laetoli trackways: the earliest hominid footprints. In: Lucas, Spielmann and Lockley, eds., Cenozoic Vertebrate Tracks and Traces. New Mexico Museum of Natural History and Science Bulletin 42:233-239.

## Presentations

The following people presented their research at the Wildlife Society's 14<sup>th</sup> Annual Conference held in Tucson, Arizona on September 22-26, 2007.

### **Plant responses to herbivory: Effects on biodiversity.**

Kelley M. Stewart, R. Terry Bowyer, John G. Kie

### **Seasonal response of elk and mule deer to forest fuels reduction.**

Ryan A. Long, John G. Kie

### **Young bighorn males: Can they successfully woo females?**

Jericho C. Whiting, R. Terry Bowyer

### **Group dynamics and timing of mating in American bison: Effects of large males.**

R. Terry Bowyer, Vernon C. Bleich, Jericho C. Whiting, Kelley M. Stewart

### **Incubation response to experimental partial clutch loss in American coots.**

David J. Delehanty, I. Noah Sparks

### **Reestablishing mountain quail into south-central Idaho.**

Ronald J. Troy, John W. Connelly, David J. Delehanty

**Dr. Jack Connelly** was awarded the **TWS Fellow** for his exceptional service to the conservation of wildlife. CONGRATULATIONS ON THIS AWARD!

The University of Idaho and Idaho State University hosted a joint reception for Alumni and Friends on September 24, 2007 at the conference.

**Dr. Jeff Meldrum** will be a featured speaker, together with naturalist Robert Pyle, at the inaugural of the Washington State Historical Society's year-long exhibit, *Giants in the Mountains: The Search for Sasquatch*, in the State Capital Museum, opening October 6, 2007, in Olympia, WA.

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## Events

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## Weekly Announcements for Sept. 23-29, 2007

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### Faculty/Staff/Other Meetings

There will **NOT** be a Biological Sciences Faculty meeting Tuesday, September 25, 2007.

### Seminars

**Dr. Vishwanath Venketaraman**, CLS job candidate from the Department of Oral Biology, University of Medicine and Dentistry-New Jersey Dental School, will present his seminar, "Glutathione and innate defense against tuberculosis infections", Thursday, September 27, 2007 at noon in LC 10. **Please try to attend.**

**Trish Nixon**, The Peregrine Fund and World Center for Birds of Prey, will present her seminar, "Captive Breeding: It's All Science, But There Ain't No Formula!" Thursday, September 27, 2007 at 4pm in LC 10.

### Publications

**Dr. Jeff Meldrum.** Letter to the Editor: Hyperbipeds -- or -- From Biped to Strider. American Journal of Physical Anthropology 134:292-294, 2007.

### Events

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# ISU Newsletter



Weekly Announcements for Sept. 16-22, 2007

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## Faculty/Staff/Other Meetings

There will **NOT** be a Biological Sciences Faculty meeting Tuesday, September 18, 2007.

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## Seminars

**Dr. Eric R Stone**, Director of Conservation Science, The Nature Conservancy of Idaho and ISU Biological Sciences alumni will present his seminar, "What is the Role of Science in Conservation? Confessions of a Conservation Biologist." Thursday, September 20, 2007 at 4 pm in LC 10.

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## Publications

**Ledbetter, R. N.**, S. A. Connon, A. L. Neal, A. Dohnalkova, and **T. S. Magnuson**. 2007. Biogenic mineral production by a novel arsenic-metabolizing thermophilic organism from the Alvord Basin, OR. *Applied and Environmental Microbiology* 73: 5928-36.

**Groome J. R.**, M. Dice, E. Fujimoto and P. C. Ruben. 2007. Charge immobilization of skeletal muscle sodium channels: role of residues in the inactivation linker. *Biophys J* 93: 1519-1533.

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## Presentations

**Dr. Tim Magnuson** was a Session Chair and Speaker at the 17th Goldschmidt Geochemistry Conference in Cologne, Germany August 19-25, 2007. The title of the talk was "Redox and solution behavior of c-type cytochromes from mineral-respiring bacteria" and was co-authored by **Michael Swenson**.

**Rhesa Ledbetter** presented research at the 17th Goldschmidt Geochemistry Conference in Cologne, Germany August 19-25, 2007. The poster was entitled "Directed proteomics applied to the detection and characterization of arsenic-transforming enzymes from complex communities in the Alvord Basin hydrothermal system" and the authors were Ledbetter, R.N., L.A. Deobald, A.P. Paszczyński, and T.S. Magnuson.

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## Travel

**Dr. John Kie** will attend the annual meeting of The Wildlife Society, September 22-26, 2007 in Tucson, Arizona. He will present a paper by **Ryan A. Long**, Janet L. Rachlow, and **John G. Kie** titled, "Seasonal response of elk and mule deer to forest fuels reduction." He also will be a co-presenter on papers by **Kelley M. Stewart**, **R. Terry Bowyer**, and **John G.**

**Kie** titled, "Plant responses to herbivory: effects on biodiversity", and another by Arthur R. Rodgers, Angus P. Carr, Hawthorne L. Beyer, Lled Smith, and **John G. Kie** titled, "HRT: Home range tools for ArcGIS®."

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## Events

### **The Intermountain Conference On The Environment September 18 & 19, 2007.**

This biannual conference will again be held on the Idaho State University campus in Pocatello, Idaho. Contributed papers with a focus on management issues, research findings, responsibility issues, or regulatory perspectives are encouraged in any of the following areas:

Energy Conservation

Dams

GIS Applications

Global Warming

Groundwater Quality

Public Policy and Economic Incentives

Hillside Development/Land Management

Alternative Fuels & Coal Gasification

Water Quality Systems & Watersheds

Public and Environmental Health

Nuclear Energy

Mining & Petroleum

Transportation

Sustainable Agricultural Practices

We hope you will be able to attend the conference. A registration form will be coming shortly. For additional information and to register, contact ISU's Continuing Education and Conference Services at (208) 282-3155 or [extendedlearning@isu.edu](mailto:extendedlearning@isu.edu) with any questions.

### **The 2007 Bioinformatics Workshop will be held, October 12 & 13, 2007.**

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A few speaker slots are open - please contact the organizers if you'd like to talk.

Training sessions are geared towards graduate students, but anyone can attend. A schedule with training topics will be distributed later. Please encourage your students to participate.

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### Notices

**Dr. John Kie** has been named to the Editorial Board of Ecological Research for a 3-year term.

**Team Biology rules at 26<sup>th</sup> Annual Pocatello Pump.** The biology department was again well represented at the Pocatello Pump rock-climbing competition held September 15-16 at Ross Park. The department was recognized at the awards ceremony for the large number of participants and award winners again this year. Students, former students and faculty climbing in this year's event included: Ken Aho, Desiree DeJong, Jessica Fultz, Jason Jones, Sara Kaiser, Sarra Moller, Peter Murphy, Dusty Pena, Vernon Phinney, Janet Prevey, Amanda Ruginski, Lisa Safford, Sarah Schoen, Cody Schroeder, Rosemary Smith, Melissa Wyatt, and Rick Williams. Mary Ann Stoll dispensed libations at the C.W. HOG Pig-Out. The Pocatello Pump is organized by the ISU Outdoor Adventure Center and supports the Terry Kranning Memorial Climbing Scholarship for ISU students.



# ISU Newsletter



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### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, September 11, 2007 at noon in the Speech Pathology building, room SPA 315.

### Awards

Dr. Caryn Evilia was awarded a \$50,000 NSF grant for her study of Protein Adaptations to Extreme Environments.

### Events

**The Pocatello Wildlife Film Festival continues on Monday Sept. 10 and Tues Sept. 11 at the Bengal Theater:**

Monday: Kids Night

Movies: Bib for a Bell, Ruin your Day, Bears of the Rattlesnake, and Season of the Otter (feature presentation)

Time: 7pm - 8:15pm

Cost: \$2 per person

Tuesday: General audience

Movies: Bib for a Bell, Ruin your Day, Thunderbeast (feature) and Tropic Gothic (feature)

Time: 7pm - 9pm

Cost: \$2 per person

**Come out and support wildlife, education, and the arts in Pocatello!**

Contact Katie Miller ([millkati@isu.edu](mailto:millkati@isu.edu)) with questions.

**The 2007 Bioinformatics Workshop will be held, October 12 & 13, 2007.**

This year's theme is "Biomedical Bioinformatics" and features training sessions and research talks emphasizing the use of computation approaches for addressing data-intensive biomedical research issues. The keynote speaker is Michael Rosenberg of Arizona State University.

The Workshop will be held in Lava Hot springs at the Aura Soma conference facility. Due to the generosity of our sponsors, the Workshop, receptions and banquet (Riverwalk Thai) are free for registered participants. Space is limited, of course - please contact Workshop organizers Mike Thomas ([mthomas@isu.edu](mailto:mthomas@isu.edu)) or Heath Ogden ([ogdet@isu.edu](mailto:ogdet@isu.edu)) to register. Rooms have been reserved at the adjoining motel (Oregon Trail) if you'd like to stay the

night (\$59).

A few speaker slots are open - please contact the organizers if you'd like to talk.

Training sessions are geared towards graduate students, but anyone can attend. A schedule with training topics will be distributed later. Please encourage your students to participate.

**Montana State University  
NSF Days Workshop  
Presented by the National Science Foundation  
Sponsored by Montana State University, VP for Research  
September 13-14, 2007**

**MSU NSF Days Workshop** is a two-day workshop providing an introduction to and overview of the National Science Foundation. There will be presentations on the programs from the major NSF directorates such as: Mathematical and Physical Sciences; Biological Sciences; Computer and Information Sciences and Engineering; Education and Human Resources; Social, Behavioral, and Economic Sciences; Engineering; and Geosciences. There will also be time for participants to chat informally with NSF program managers. For more information or to register visit

<http://www.montana.edu/wwwvr/osp/NSFDaysatMSUSept07.html>.

**The Intermountain Conference On The Environment  
September 18 & 19, 2007.**

This biannual conference will again be held on the Idaho State University campus in Pocatello, Idaho. Contributed papers with a focus on management issues, research findings, responsibility issues, or regulatory perspectives are encouraged in any of the following areas:

Energy Conservation  
Dams  
GIS Applications  
Global Warming  
Groundwater Quality  
Public Policy and Economic Incentives  
Hillside Development/Land Management  
Alternative Fuels & Coal Gasification  
Water Quality Systems & Watersheds  
Public and Environmental Health  
Nuclear Energy  
Mining & Petroleum  
Transportation  
Sustainable Agricultural Practices

We hope you will be able to attend the conference. A registration form will be coming shortly. For additional information and to register, contact ISU's Continuing Education and Conference Services at (208) 282-3155 or [extendedlearning@isu.edu](mailto:extendedlearning@isu.edu) with any questions.

**Snake River Association for Neuroscience Fall Conference 2007**  
**Thursday 5:00 p.m. October 11<sup>th</sup> - Saturday, 12:00 noon October**  
**13<sup>th</sup>**

**Sun Valley Resort in Sun Valley, ID**

**CALL FOR ABSTRACTS: Abstract submissions due by September 12<sup>th</sup>.** *Check our web site to submit your abstract: <http://www.isu.edu/departments/sran/>.* The preliminary program includes an opening plenary talk by **Dr. Curt Anderson**, Idaho State University, entitled "So, what DO we know about the brain?" The keynote address Friday evening will be presented by Dr. David Linden, John Hopkin's University, "The Accidental Mind."

**Registration opens September 4, 2007.**

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**ISU**

Department of Biological Sciences

# Newsletter



**Weekly Announcements for Sept. 2-8, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, September 4, 2007 at noon in the Speech Pathology building, room SPA 315.

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## Seminars

**Mitch Day**, graduate student with **Dr. Michael Thomas** will present his dissertation defense seminar, "Applications of Comparative Genomics to Prokaryotic Phylogenetics and Metagenomics", on Wednesday, **September 5th from 2-3 pm**. It will take place in Plant Sciences Lecture Hall 114 and all are welcome to attend.

**Dr. Randy Bangert**, Post Doc with **Dr. Nancy Huntly**, will present his seminar, "Cottonwood genetic diversity and arthropod communities", **Thursday, September 6, 2007 at 4pm in the Lecture Center, 10**.

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## Publications

**Cotter Paul A.** and **Rodnick Kenneth J.** Fishing for an ECG: a student-directed electrocardiographic laboratory using rainbow trout. *Advances in Physiology Education* 31:211-217, 2007.

**Dr. Paul Cotter** was a Doctoral of Arts student in our department and is currently an Assistant Professor in the Department of Biological Sciences at the University of Alaska, Anchorage.

Van Kirk, Robert W, ISU Department of Mathematics, and **Sheryl L. Hill**, ISU Department of Biological Sciences. Demographic model predicts trout population response to selenium based on individual-level toxicity. *Ecological Modeling* (Volume 206, Issue 1, pp. 407-420) August 24, 2007. A PDF copy of the paper is available from the authors, who can be contacted by e-mail at [vankrobe@isu.edu](mailto:vankrobe@isu.edu) or [hillsher@isu.edu](mailto:hillsher@isu.edu).

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## Presentations

The following faculty & students presented talks/posters at the Ecology Society of America annual meeting, August 6-10, 2007 in San Jose, California;

**Dr. Ken Aho:** Reclamation of native vegetation on western post-coal-mine landscapes

**Dr. Peter Murphy:** Susceptibility of two boreal toad populations to native *Batrachochytrium dendrobatidis*

**Faith Rudebusch** (MS, Huntly Lab): Cascading effects of cattle on an Aleutian Island

**Sarah Schoen** (MS, Huntly Lab): Fox impacts on avian communities of an Aleutian Island

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## Travel

**Dr. Matt Germino** will be traveling to Wawona CA for a meeting on a DOE project entitled "Climate Change and Species Range Shifts in the Sierra Nevada", from Thursday, Sept. 13 to 17, 2007.

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## Events

### **Annual Departmental Graduate Student BBQ**

Friday, September 7 from 6:00 to 10:00

Raymond Park-Maps available in main office

We will supply burgers, veggie burgers, hot dogs and buns. Please sign up to bring a side dish and drinks to share; the sign up sheet is in the front office!

All faculty, staff and friends are welcome to attend. This is a great way for everyone to meet new members in the department! Contact Amanda Fisher ([fishaman@isu.edu](mailto:fishaman@isu.edu)) and Katie Miller ([millkati@isu.edu](mailto:millkati@isu.edu)) with questions.

**Biology Graduate Students (BGS)** is sponsoring the Pocatello Wildlife Film Festival September 8 – 11, 2007. The Pocatello Wildlife Film Festival is a post-event tour of the International Wildlife Film Festival from Missoula, MT. The September 8th Gala will be held from 6-10pm at the Stevens Performing Arts Center on the campus of ISU. Films are: "A Bib for a Bell", "Ruin your Day", and our feature presentation, "My Halcyon River". The gala includes a cash bar, dinner, and silent auction. Tickets are on sale for \$20 each (or \$18 each for members of BGS). For tickets, or questions about the event, please contact **Katie Miller** ([millkati@isu.edu](mailto:millkati@isu.edu)) or **Amanda Fisher** ([fishaman@isu.edu](mailto:fishaman@isu.edu))

### **Montana State University**

#### **NSF Days Workshop**

**Presented by the National Science Foundation**

**Sponsored by Montana State University, VP for Research**

**September 13-14, 2007**

**MSU NSF Days Workshop** is a two-day workshop providing an introduction to and overview of the National Science Foundation. There will be presentations on the programs from the major NSF directorates such as: Mathematical and Physical Sciences; Biological Sciences; Computer and Information Sciences and Engineering; Education and Human Resources; Social, Behavioral, and Economic Sciences; Engineering; and Geosciences. There will also be time for participants to chat informally with NSF program managers. For more information or to register visit

<http://www.montana.edu/wwwvr/osp/NSFDaysatMSUSept07.html>.

### **The Intermountain Conference On The Environment**

**September 18 & 19, 2007.**

This biannual conference will again be held on the Idaho State University campus in Pocatello, Idaho. Contributed papers with a focus on management issues, research findings,

responsibility issues, or regulatory perspectives are encouraged in any of the following areas:

Energy Conservation

Dams

GIS Applications

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Public Policy and Economic Incentives

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Water Quality Systems & Watersheds

Public and Environmental Health

Nuclear Energy

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**Snake River Association for Neuroscience Fall Conference 2007**

**Thursday 5:00 p.m. October 11<sup>th</sup> - Saturday, 12:00 noon October 13<sup>th</sup>**

**Sun Valley Resort in Sun Valley, ID**

**CALL FOR ABSTRACTS: Abstract submissions due by September 12<sup>th</sup>.** *Check our web site to submit your abstract: <http://www.isu.edu/departments/sran/>.* The preliminary program includes an opening plenary talk by **Dr. Curt Anderson**, Idaho State University, entitled "So, what DO we know about the brain?" The keynote address Friday evening will be presented by Dr. David Linden, John Hopkin's University, "The Accidental Mind."

**Registration opens September 4, 2007.**

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# ISU Newsletter



**Weekly Announcements for Aug. 26-Sept. 7, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

## Seminars

**Kelsey Metzger**, graduate student with **Dr. Mike Thomas**, will present her DA proposal seminar, “Sex, Disease, and Genes: A study of genetic variation and adaptive evolution in human CCR5, a co-receptor for HIV-1 and marker of susceptibility to symptomatic West Nile Virus.” Plus “A study of adaptive evolution in widely conserved sex-determining genes of amniotic vertebrates.” **Thursday, Aug. 30, 2007 at Noon in the Plant Sciences Lecture Hall 114.**

**Dr. Angus McIntosh**, University of Canterbury, New Zealand, will present his seminar, “Interactions Across Riverscapes: How the Configuration of Stream Environments Shapes the Strength of Predator-Prey Interactions,” **Thursday, August 30, 2007 at 4 pm in Plant Sciences Lecture Hall 114.**

## Events

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**Registration opens September 4, 2007.**

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**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for August 19-24, 2007

Please submit newsletter information to Susan at [rittusa@isu.edu](mailto:rittusa@isu.edu)

### Presentations

**Dr. Bill Akersten** will be featured on the National Geographic Sabertooth program on the National Geographic channel. The latest schedule is August 19<sup>th</sup> @ 10pm, 20<sup>th</sup> @ 1 am, 25 @ 10pm, 26 @ 1am, and 28<sup>th</sup> @ 5 pm.

**Nishant Mohan**, graduate student with **Dr. James Groome**, presented his poster, "Role of domain II voltage sensor in fast inactivation of skeletal muscle sodium channel," at the INBRE summer conference August 6-8, 2007, at University of Idaho, Moscow, ID.

### Events

#### **ANNUAL FACULTY RETREAT AND DEPARTMENT DINNER AT PEBBLE CREEK SKI AREA- Friday, August 24, 2007**

8am-5pm-Meeting for Faculty/Lecturers/Post Docs

5:30pm-Dinner for Faculty/Lecturers/Post Docs/Staff/Graduate Students/Retirees/Guests and friends.

Please RSVP by Wednesday, August 22, to Susan at [rittusa@isu.edu](mailto:rittusa@isu.edu) or 282-2809 for # attending so we can plan the food accordingly. Maps to Pebble Creek are in the main office.

#### **Montana State University**

#### **NSF Days Workshop**

**Presented by the National Science Foundation**

**Sponsored by Montana State University, VP for Research**

**September 13-14, 2007**

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**Registration opens September 4, 2007.**

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**Notices**

**MANDATORY GRADUATE STUDENT  
MEETING AUGUST 23, 2007 in PLCI 114**

8:00am -11:00am for all Graduate students.

11:00am- lunch provided in the lobby of Biology Building

12:00pm - 1:30pm-TA's only

All graduate students are required to be in attendance.



**ISU**

Department of Biological Sciences

# Newsletter



**Weekly Announcements for July 29-Aug. 4, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

## Publication

**Bearden S.E.**, Erik Linn, Blair S. Ashley, Robin C. Looft-Wilson. Age-related changes in conducted vasodilation: effects of exercise training and role in functional hyperemia. American Journal of Physiology: Regulatory, Integrative and Comparative Physiology IN PRESS.

Myers A.K., **Marcarelli A.M.**, Arp C.D., Baker M.A., and Wurtsbaugh, W.A. 2007. Disruptions of stream sediment size and stability by lakes in mountain watersheds: potential effects on periphyton biomass. Journal of the North American Benthological Society 26 (3): 390-400.

Dalerum, F., **Loxterman, J.**, Shults, B., Kyron, K., Cook, J.A. 2007. Sex-Specific Dispersal Patterns of Wolverines: Insights from Microsatellite Markers. Journal of Mammalogy, 88(3):793-800.

## Awards

**Dr. Jeff Meldrum** received \$11,000 grant to develop an on-line peer-reviewed journal, The Relict Hominoid Inquiry.

**Jessica Del Monte Hopkins**, DA student with **Dr. G. Wayne Minshall** and **Dr. Rosemary Smith**, was award the Best Oral Presentation in Basic Research at the annual meeting of the North American Benthological Society June 3-7, 2007 in Columbia, SC. Congratulations!

## Presentation

**Kira Pontius**, graduate student with **Dr. Rosemary Smith**, presented her talk "Changes in reproductive behavior in response to elevation in a burying beetle," with co-author **Dr. Rosemary Smith** at the Animal Behavior Society meeting in Burlington, Vermont July 21-25, 2007.

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## Notices

### **IDAHO'S MULE DEER**

#### **A Free Public Workshop**

Saturday, August 4, 2007, 9:30 am to 3:00 pm

Plant Sciences Lecture Hall, Idaho State University

Hosted by the Idaho Department of Fish and Game

**Dr. John Kie** and **Dr. Terry Bowyer** from ISU and Rick Kahn from the Colorado Division of Wildlife Resources, and biologist from IDFG will host an interactive discussion on mule deer and their management in Idaho.

**Please RSVP by Wednesday, August 1 by calling the IDFG at 208-232-4703.**





## Weekly Announcements for July 22-28, 2007

Please submit newsletter information to Susan at [ritysusa@isu.edu](mailto:ritysusa@isu.edu)

### Publication

**H.A. Bechtold and R.S. Inouye.** 2007. Distribution of carbon and nitrogen in sagebrush steppe after six years of nitrogen addition and shrub removal. *Journal of Arid Environments*, Volume 71, Issue 1, October 2007, Pages 122-132

### Notices

**Dr. Sip van Wieren** will be joining the department for a mini sabbatical leave from the Resource Ecology Group, Wageningen University, Wageningen, Netherlands. He will be in LS 410 until mid-October.

More information concerning his research interests and publications is available at:

<http://www.reg.wur.nl/UK/Staff/Wieren/>

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**Dr. John Kie** and **Dr. Terry Bowyer** from ISU and Rick Kahn from the Colorado Division of Wildlife Resources, and biologist from IDFG will host an interactive discussion on mule deer and their management in Idaho.

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# ISU Newsletter



## Weekly Announcements for July 15-21, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Presentations

**Dr. Mike Thomas** presented, "Are alternatively spliced mRNA's the product of natural selection for enhancing transcriptome diversity?" (co-author **Luobin Yang**), at the Society for Molecular Biology and Evolution (SMBE) annual meeting in Halifax, Nova Scotia on June 24-29, 2007.

**Dr. Jeff Meldrum** attended a book-signing event and gave a public presentation on *Sasquatch: Legend Meets Science* in Santa Cruz, California, on June 30, 2007. The paperback edition of his book will be released in early September.

**Dr. John Kie** presented an invited paper, "Using thermal landscapes to improve resource selection functions for black-tailed deer," (co-author **Dr. Terry Bowyer**), at a special symposium on Thermal Landscapes at the IALE meeting in Wageningen, The Netherlands on July 8-12, 2007.

### Publication

**Monteith KL**, Sexton CL, Jenks JA, **Bowyer RT**. 2007. Evaluation of Techniques for Categorizing Group Membership of White-Tailed Deer. *Journal of Wildlife Management*, 71(5):1712-1716.

**Bearden SE**. 2007. Advancing Age Produces Sex Differences In Vasomotor Kinetics During And After Skeletal Muscle Contraction. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. In Press

**Gerrish RS**, **Lee JE**, Reed J, Williams J, **Farrell LD**, **Spiegel KM.**, et al. 2007. PCR versus hybridization for detecting virulence genes of enterohemorrhagic *Escherichia coli*. *Emerg Infect Dis.*, Aug; [Epub ahead of print]

**Perkel JM**. "Cell signaling: In vivo veritas," *Science*, 316:1763, June 22, 2007

**Perkel JM**. "Selenium sensing sans calibration," *Analytical Chemistry*, 79:4747, July 1, 2007.

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## Opportunities

**ISU Undergraduate Science and Engineering Students in Biological Sciences, Geosciences, Chemistry, Physics, Math and Engineering** needed to partner with a middle school science teacher and the prestigious **National Science Foundation funded GK-12 Program**.

Teacher-scientist partners spend the FALL 2007 SEMESTER in the classroom working with students to compete in a LEGO League robotics competition in late November.

**Applications due July 19, 2007.**

Applications and additional information:

<http://www.isu.edu/departments/gradk12/index.html>

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## Awards

**Tiffany Whitney**, graduate student with **Dr. Maureen Brandon**, received a second place award in the Biological Sciences Section at the AAAS-Pacific Division meeting for her oral presentation, "Active remodeling in lymphangiomiomatosis as revealed by serial analysis of gene expression." The AAAS-PD meetings were held in Boise on June 18 - 21, 2007.

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## Notices

**Dr. Jeff Meldrum** was elected to a five-year term on the executive committee of the American Association for the Advancement of Science -- Pacific Division at the AAAS-PD meetings held in Boise on June 18-21, 2007



## Weekly Announcements for July 8-14, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Seminars

**Jack Shurley**, graduate student with **Dr. Gene Scalarone**, will present his PhD defense seminar, “**Blastomyces Dermatitidis: Antigenic Evaluation of Yeast Phase Lysates**,” **Friday, July 13, 2007 at noon in the Plant Science Lecture Hall, 114.**

### Publication

**Dr. Terry Bowyer's** article, “**Antler size of Alaskan moose *Alces alces gigas*: effects of population density, hunter harvest and use of guides**”, by J.I. Schmidt, J.M. Ver Hoef & R.T. Bowyer – *Wildlife Biology*. 13 (1): 53-65, has been chosen to be the WB 'featured article' at the BioOne.2 website for July this year. **Congrats!**

### Opportunities

**ISU Undergraduate Science and Engineering Students in Biological Sciences, Geosciences, Chemistry, Physics, Math and Engineering** needed to partner with a middle school science teacher and the prestigious **National Science Foundation funded GK-12 Program**.

Teacher-scientist partners spend the FALL 2007 SEMESTER in the classroom working with students to compete in a LEGO League robotics competition in late November.

**Applications due July 19, 2007.**

Applications and additional information: <http://www.isu.edu/departments/gradk12/index.html>

### Awards

**Dr. Jack Connelly**, Affiliate Faculty, has been selected by The Wildlife Society Council as a TWS Fellow for his exceptional service to the wildlife profession. The Award Ceremony will be held September 23, 2006 during The Wildlife Society's 14<sup>th</sup> Annual Conference in Tucson, Arizona. **Congratulations Jack!**

### Notices

#### NSF Days at Montana State University

The National Science Foundation and Montana State University will be holding a two-day workshop on **September 13 and 14, 2007**, in Bozeman, Montana. The workshop will provide an overview of the Foundation, its mission, priorities, and budget. It will cover the NSF proposal and merit review process and NSF programs that cut across disciplines. Additionally, representatives from the seven NSF directorates will make presentations on their programs and will also be available individually and in breakout sessions for more specific discussion of potential research proposals. There is an early registration fee of \$50.00 for this workshop. You can register and find additional information at: <http://www.montana.edu/wwwvr/osp/NSFDaysatMSUSept07.html>



**ISU**  
Department of Biological Sciences

# Newsletter



**Weekly Announcements for June 24-30, 2007**

Please submit newsletter information to Susan at [rittusa@isu.edu](mailto:rittusa@isu.edu)

## Seminars

**Rhesa Ledbetter**, graduate student with Dr. Gene Scalalone, will present her masters defense seminar, "MICROBIAL 'LIFE SIGNATURES': Novel biogenic mineral production and enzyme detection in microorganisms," on **Tuesday, July 3, 2007 at 3pm in Plant Sciences 114.**

## Presentations

**Dr. Jeff Meldrum** presented, "Creating an archive of 3D virtualizations of the footprint evidence for an unrecognized hominoid in the Pacific and Inter-Mountain West," at the American Association for the Advancement of Science - Pacific Division (AAAS-PD) Meetings, held in Boise, June 18, 2007.

## Awards

**Dr. Jeff Meldrum** received a continuation grant in the amount of \$4545, for his project, *3D Virtualization of Footprints.*

**Tiffany Whitney**, graduate student with Dr. Maureen Brandon, received second place in the Biological Sciences division for her oral presentation, "Active remodeling in lymphangioliomyomatosis as revealed by serial analysis of gene expression (SAGE)," at the AAAS Pacific Division meeting in Boise, June 18, 2007.

## Notices

### **NSF Days at Montana State University**

The National Science Foundation and Montana State University will be holding a two-day workshop on **September 13 and 14, 2007**, in Bozeman, Montana. The workshop will provide an overview of the Foundation, its mission, priorities, and budget. It will cover the NSF proposal and merit review process and NSF programs that cut across disciplines.

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# ISU Newsletter



## Weekly Announcements for June 17-23, 2007

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### Seminars

**Pavan K. Battiprolu**, graduate student with **Dr. Ken Rodnick**, will present his Ph.D. dissertation seminar, "Sex Differences in Cardiac Function and Glucose Metabolism in Immature Rainbow Trout (*Oncorhynchus Mykiss*)", on **Friday, June 22, 2007 at 10:00 am in the Plant Science Lecture Hall.**

**Jessica Hopkins**, graduate student with **Dr. G. Wayne Minshall**, will present her D.A. defense seminar, "Skeletons in the stream: Invertebrates and leaf litter decay in the Portneuf River," on **Friday, June 22, 2007 at 11:30 am in the Plant Science Lecture Hall.**

### Publications

**Shurley JF, Scalarone GM.** 2007. Comparison of *Blastomyces dermatitidis* Yeast Phase Lysate Antigens for Their Use as Diagnostic Reagents in the Competitive Inhibition ELISA for the Detection of Blastomycosis. *Journal of Medical and Biological Sciences*, Volume 1, Issue 2.

**Shurley JF, Scalarone GM.** 2007. Isoelectric focusing and ELISA evaluation of a *Blastomyces dermatitidis* human isolate. *Mycopathologia* DOI 10.1007/s 11046-007-9033-8

### Notices

**The Portneuf Watershed Symposium** will be held on **Wednesday, June 20, 2007** in the Wood River Room in the Pond Student Union at ISU. The symposium, which will run from 8:00 AM to 5:00 PM, will include talks about the state of the Portneuf River, ongoing research focused on the Portneuf River, and efforts to improve the condition of the Portneuf River. Speakers will include representatives from the Idaho Department of Environmental Quality, the US Environmental Protection Agency, Idaho State University, the City of Pocatello, Idaho Fish and Game, J.R. Simplot Company, the US Geological Survey, and the Idaho Association of Soil Conservation Districts. The symposium will end with a round table discussion and an opportunity to ask questions of the speakers. Attendance is free, but there is a charge for refreshments, lunch, and a program. **For information, contact Richard Inouye (282-2933, or [inourich@isu.edu](mailto:inourich@isu.edu)).**

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NSF proposal and merit review process and NSF programs that cut across disciplines. Additionally, representatives from the seven NSF directorates will make presentations on their programs and will be available individually and in breakout sessions for more specific discussion of potential research proposals. There is an early registration fee of \$50.00 for this workshop. You can register and find additional information at:

<http://www.montana.edu/wwwvr/osp/NSFDaysatMSUSept07.html>

**The National Science Foundation** is currently accepting proposals for **Research Experiences for Undergraduates (REU)**. The REU program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. Students should apply directly to REU sites at

[http://www.nsf.gov/crssprgm/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu_search.cfm).

The anticipated deadline for REU site proposal will be on, or about August 15, 2007.

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### **Job Opportunities**

**Quinault Indian Nation, Taholah, WA.**

**SEASONAL FISHERIES TECHNICIANS – CLOSE 06/20/07**

Fisheries Technical Support Section will be hiring up to 20 workers for the spring 2007 field season in Queets. Rate of pay is \$ 10.15 - \$ 12.50 per hour DOQ, up to 40 hours per week.

Contact Larry Parker or Cheri Sanchez at 360-276-4191 ext 577 or 266

[www.quinaultindiannation.com](http://www.quinaultindiannation.com)



## Weekly Announcements for June 10-16, 2007

Please submit newsletter information to Susan at [rittusa@isu.edu](mailto:rittusa@isu.edu)

### Seminars

**Scott Clingenpeel**, graduate student with **Dr. Malcolm Shields**, will present his Ph.D. defense seminar, "Assessment of Bioremediation Potential at a Diesel and Chlorinated Ethene Contaminated Site", on **Monday, June 18, 2006 at 1:00 pm in Plant Sciences Lecture Hall.**

### Publications

Seefledt S, **Germino MJ, DiCristina KM**. 2007. Prescribed fires have minor and transient effects on herbaceous vegetation cover and composition. *Applied Vegetation Science* 10: 249-256

Schmidt, JI, **Ver Hoef, JM, Bowyer, RT**. 2007. Antler size of Alaskan moose *Alces alces gigas*: effects of population density, hunter harvest and use of guides. *Wildlife Biology* 13:1 53-65

### Presentations

A large contingent from the ISU Biology Department attended the annual North American Benthological Society Meeting June 3-7, 2007 in Columbia, South Carolina. The NABS is the International Society for the study of streams and rivers. Students and faculty from the ISU Biology Department are authors on a total of 17 oral and poster presentations (titles and authors below) at this year's meeting.

"Floodplain contributions to basal resources and retention in montane rivers: Comparison of dredge-mined to reference segments." **J. Ryan Bellmore, Colden V. Baxter, and Andrew M. Ray.**

"Impacts of flow disturbance on densities of the New Zealand mud snail, *Potamopyrgus antipodarum*, in the Portneuf River, Idaho." **Jessica M. Hopkins and G. Wayne Minshall.**

"The "Fire Pulse:" Effects of wildfire on periphyton, benthos, insect emergence, and riparian predators in a wilderness watershed." **Rachel L. Wilkinson and Colden V. Baxter.**

"Aquatic effects of a terrestrial invader: 35-year natural experiment shows Russian olive alters basal resources and community metabolism of a desert spring stream." **Madeleine M. Mineau, Colden V. Baxter, Amy M. Marcarelli, G. Wayne Minshall, and Steven A. Thomas,**

"Regional differences between brook trout and cutthroat trout populations and potential consequences for stream-riparian ecosystems." **Joseph R. Benjamin, Colden V. Baxter, and Kurt D. Fausch.**

"The Effect of Agro-Urban Land-Use on Stream Retention of Dissolved Nitrogen, Carbon, and Phosphorus in SE Idaho." **Heather A. Bechtold, Amy M. Marcarelli, Colden V. Baxter, and Richard S. Inouye.**

"Invertebrate drift as a predictor of salmonid abundance and distribution in the Panther Creek Watershed, Idaho." **Sarra L. Moller and Ernest R. Keeley.**

"Concordance (or lack thereof) between water chemistry and ecosystem function in a eutrophic river." **Amy**

**M. Marcarelli, Heather A. Bechtold, Richard S. Inouye, Amanda T. Rugenski, and Colden V. Baxter.**

"A "tail" of two streams: The influence of regional and network context on the ecology of Rocky Mountain tailed frog tadpoles." **Jason L. Jones, Colden V. Baxter, and Charles R. Peterson.**

"What's going down City Creek: Evaluating Pocatello's water quality using a small city stream." **Jason L. Jones.**

"Denitrification Potential along a Nitrate gradient within Mink Creek." **Christopher P. Wilhelm, Amy M. Marcarelli, Colden V. Baxter, and Richard S. Inouye.**

"Interacting effects of nutrient concentration and temperature on release rates of nutrient diffusing substrates." **Amanda T. Rugenski, Amy M. Marcarelli, Heather A. Bechtold, and Richard S. Inouye.**

"A brief history of the Grand Canyon: developing an ecosystem perspective for conservation of native fishes in the Colorado River." Theodore A. Kennedy, E. J. Rosi-Marshall, R.O. Hall, **Colden V. Baxter**, W.F. Cross, H.A. Wellard, and **Michael D. Yard.**

"Autochthonous versus Allochthonous Carbon Inputs to the Colorado River, Grand Canyon." Robert O. Hall, Theodore Kennedy, Emma Rosi-Marshall, **Michael D. Yard**, Wyatt Cross, and **Colden V. Baxter.**

"Invertebrate diets track downstream changes in resource availability in the Colorado River below Glen Canyon Dam." Holly A. Wellard, E. Rosi-Marshall, R. Hall, W. Cross, T. Kennedy, and **Colden Baxter.**

"Using Ecosystem Production Budgets to Assess Resource Limitation of Native and Non-Native Fishes in Colorado River, Grand Canyon." Wyatt F. Cross, **Colden V. Baxter**, R.O. Hall, T.A. Kennedy, S. Rogers, E.J. Rosi-Marshall, and **Michael D. Yard.**

"Effects of Tributary Sediment Input on Distribution and Foraging Behavior of Nonnative Salmonids, and Potential Consequences for Native Fishes in the Colorado River, Grand Canyon." **Michael D. Yard**, Lewis G. Coggins, and **Colden V. Baxter.**

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## Awards

Glenn NJ, **Germino MJ.** 2007. Fusion of remotely sensed data sources for modeling eolian soil transport in heterogeneous terrain. DOD EPSCOR. \$350,000/3 years

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## Notices

**The Portneuf Watershed Symposium** will be held on Wednesday, June 20<sup>th</sup>, 2007 in the Wood River Room in the Pond Student Union at ISU. The symposium, which will run from 8:00 AM to 5:00 PM, will include talks about the state of the Portneuf River, ongoing research focused on the Portneuf River, and efforts to improve the condition of the Portneuf River. Speakers will include representatives from the Idaho Department of Environmental Quality, the US Environmental Protection Agency, Idaho State University, the City of Pocatello, Idaho Fish and Game, J.R. Simplot Company, the US Geological Survey, and the Idaho Association of Soil Conservation Districts. The symposium will end with a round table discussion and an opportunity to ask questions of the speakers. Attendance is free, but there is a charge for refreshments, lunch, and a program. **For information contact Richard Inouye (282-2933, or [inourich@isu.edu](mailto:inourich@isu.edu)).**

**The National Science Foundation** is currently accepting proposals for **Research Experiences for Undergraduates (REU)**. The REU program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. Students should apply directly to REU sites at [http://www.nsf.gov/crssprgm/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu_search.cfm). The anticipated deadline for REU site proposal will be on, or about August 15, 2007.

The American Association for Zoological Nomenclature must vacate storage space in National Museum of Natural History to make room for renovations. Therefore, the following items are offered at greatly reduced prices.

"International Code of Zoological Nomenclature." 1999. 4th ed. London: The International Trust for Zoological Nomenclature, xxix + 306 pp. (original price \$48.00 for individuals) Sale price \$15.00 plus postage; \$19.00 postpaid in the U.S. (book rate)

"Towards stability in the names of animals-A history of the International Commission on Zoological Nomenclature 1895-1995." 104 pp. (original price \$50.00 for individuals) Sale price \$15.00 plus postage; \$19.00 postpaid in the U.S. (book rate)

The following two items are offered as a unit:

"Official lists and indexes of names and works in zoology." 1987. London: The International Trust for Zoological Nomenclature. 365 pp.

"Official lists and indexes of names and works in zoology. Supplement 1986-2000." 2001. London: The International Trust for Zoological Nomenclature. 136 pp. (offered also as a separate item below) (original price for both \$140.00) Sale price \$40.00 plus postage; \$45.00 postpaid in the U.S. (book rate)

"Official lists and indexes of names and works in zoology. Supplement 1986-2000." 2001. London: The International Trust for Zoological Nomenclature. 136 pp. (Original price \$85.00) Sale price \$25.00 plus postage; \$29.00 postpaid in the U.S. (book rate)

**Terms:** Cash or check made out to the American Association for Zoological Nomenclature. Unfortunately, we cannot accept money orders or credit cards. Do not send cash in the mail. If you are unable to purchase according to these terms and still wish to acquire any of these items, contact Gardner.

Contact person: Alfred Gardner, USGS Patuxent Wildlife Research Center, National Museum of Natural History, P. O. Box 37012, Room 378 MRC 111, Washington, D.C. 20013-7012

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## **Job Opportunities**

### **Quinault Indian Nation, Taholah, WA.**

#### **WILDLIFE BIOLOGIST 1 – CLOSE 06/18/07**

Wildlife Biologist I for the Environmental Protection program to provide assistance with ongoing wildlife studies and conduct environmental protection work essential to support forest management activities. Knowledge with the Endangered Species Act, wildlife management, and quantitative science. Strong interpersonal communication skills; ability to clearly express ideas in oral and writing; valid WA St. driver's license. Desired training in capture and restraint of wildlife, radio telemetry tracking, knowledge in terrestrial habitat identification and data collection, forest ecology and habitats, and competence with computer spreadsheets and data management.

### **SEASONAL FISHERIES TECHNICIANS – CLOSE 06/20/07**

Fisheries Technical Support Section will be hiring up to 20 workers for the spring 2007 field season in Queets. Rate of pay is \$ 10.15 - \$ 12.50 per hour DOQ, up to 40 hours per week.

Contact Larry Parker or Cheri Sanchez at 360-276-4191 ext 577 or 266

[www.quinaultindiannation.com](http://www.quinaultindiannation.com)

### **SEEDS of SUCCESS**

**Chicago Botanic Garden** in partnership with the Bureau of Land Management is looking for botanists to intern with an exciting national botany project, Seed of Success. Internships begin in mid to late June and last for 5 months. We are looking for recent graduates who have good plant identification skills, some field work experience and love to work outdoors. Requirements include: ability to use a dichotomous key, identify plants to the family or genus, BS or BA in ecology or plant biology. For more information contact: [kkordecki@chicagobotanic.org](mailto:kkordecki@chicagobotanic.org).

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### **Alumni News**

**Jessica Hopkins**, Doctor of Arts student with **Dr. G. Wayne Minshall**, has accepted an Assistant Professor of Biology position at the University of Akron in Ohio to begin August 2007. Congratulations!!





**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for May 27-June 2, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Seminars

**Meredith Seiler**, DA student with **Dr. Ernest Keeley**, will present her Doctoral Dissertation, "Taxonomically vs. ecologically based variation in morphology among cutthroat trout (*Oncorhynchus clarkii spp.*) populations of western North America," **Thursday, May 31, 2007, at 2 p.m. in PLSCI 114.**

**Cody Schroeder**, MS student with **Dr. Terry Bowyer**, will present his Masters defense seminar, "Sexual Segregation in Sierra Nevada Mountain Sheep During Winter," **Friday, June 1, 2007, at noon in the Plant Science Lecture Hall 114.**

### Presentations

**Dr. Jeff Meldrum** will make a presentation on the North American Ape Project to personnel from the U.S. Forest Service and Wyoming Game & Fish on **Tuesday, May 29, 2007.**

### Awards

**Dr. Robert Anderson** and **Dr. Kathleen Spiegel** were granted Professor Emeritus Status at the May Commencement. **Congratulations to them both.**

### Notices

The **National Science Foundation** is currently accepting proposals for **Research Experiences for Undergraduates (REU)**. The REU program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. Students should apply directly to REU sites at [http://www.nsf.gov/crssprgm/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu_search.cfm).

The anticipated deadline for REU site proposal will be on, or about August 15, 2007.

### Job Opportunities

**Institute for Tropical Marine Ecology (ITME)**  
**Fall 2007 Research Semester (Sept 3- Nov 26)**  
**Call for Applications**

ITME, located on the Eastern Caribbean island of Dominica, has been in operation since 1999. It serves as a field station for scientists and research groups from around the world, and also provides intensive research-oriented academic programs in marine ecology and conservation.

We are currently calling for applications to our Fall Semester 2007. In this intensive 12-week program of approximately 260 structured academic contact hours, students engage in 4 courses (AC 301: Natural History and Identification of Marine Organisms, AC 302: Principles of Tropical Marine Ecology, AC 303: Marine Research Methodology, and AC 304: Marine Resource Conservation). These courses provide the training for applied research projects in which each student participates. All projects are issue-driven in order to provide relevant answers to resource users and policy-makers. Results are presented at public hearings with coverage from various local media outlets.

The research focus for Fall 2007 will be completing the first comprehensive marine habitat documentation ever compiled for the island. Building on the Institute's research to date, students will survey benthic habitats following standardized protocols. The surveys are planned in such a manner as to fill the remaining knowledge gaps about the distribution and condition of Dominica's coastal ecosystems. Final results will be added to the existing database which will be made available in its entirety on the Internet via a new website to be launched at the end of the Fall semester 2007. It will allow the general public as well as professionals to "navigate" the islands marine habitats via regions, habitat types and organism groups.

ITME programs have been a stepping-stone towards graduate school and a career in environmental sciences for many of our alumni, some of whom have returned as instructors and graduate researchers. For the adventurous, environmentally concerned, and research-oriented student, our programs offer a rewarding addition to their professional development. Interested students should contact Mary Akers (Director of Admissions) at [admissions@itme.org](mailto:admissions@itme.org)

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### **Alumni News**

Former M.S. student **Adjoa Ahedor** recently completed her Ph.D. in Botany at the University of Oklahoma in plant systematics. Dr. Ahedor completed her M.S. at ISU in 2001 under Dr. Jenny Xiang and Dr. Rick Williams on the molecular genetics of plant hybrid zones. Adjoa had a strong emphasis in teaching as part of her doctoral program and will continue to teach botany at OU in the near future.



**ISU**  
Department of Biological Sciences

# Newsletter



## Weekly Announcements for May 20-26, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Seminars

**Sarah Bruer**, Graduate student with **Drs. Sophie St-Hiliare and Chuck Peterson**, will present her Masters Thesis defense, "The Epidemiology of *Batrachochytrium dendrobatidis* in the Boreal toad, *Bufo boreas boreas*," on **Wednesday, May 23, 2007 at 1pm in the Plant Sciences Lecture Hall, 114.**

**R. Todd Hartle**, D.A. Candidate with **Drs. Rosemary Smith and Paul Beardsley**, will present his D.A. defense seminar, "Cultural factors influencing collaborations between K-12 science educators and scientific researchers using the ISU GK-12 project as a model," on **Friday, May 25, 2007 at noon in Room B06 in the Library Basement.**

### Awards

The **Biology Graduate Students** were awarded \$500 for their proposal "Darwin Day Speaker On Evolution" by the ISU Cultural Affairs Council.

### Notices

The **National Science Foundation** is currently accepting proposals for **Research Experiences for Undergraduates (REU)**. The REU program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. Students should apply directly to REU sites at [http://www.nsf.gov/crssprgm/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu_search.cfm).

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**ISU**  
Department of Biological Sciences

# Newsletter



## Weekly Announcements for March 18-24, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a **Biological Sciences Faculty** meeting **Tuesday, March 20, 2007 at noon** in the **Speech Pathology building in room 315**.

### Seminars

**Dr. Dale Gentry**, Teton Science School, will present his seminar, "Dynamics of Cavity-using Birds in Old-burn Forests in the Black Hills, South Dakota", **Thursday, March 22 at 4 pm** in the **Plant Sciences Lecture Hall 114**.

**David Hilliard** and **Susan Parsons**, graduate students will present their graduate seminars on **Thursday, March 22, 2007 at noon** in **Vocational Arts Building room 117**.

**Joe Benjamin**, graduate student, will present his Ph.D. proposal seminar, "Nonnative brook trout vs. native cutthroat trout: food web effects and energy flow to riparian consumers", **Friday, March 23, 2007 at 2:00** in the **Plant Sciences Lecture Hall 114**.

### Publications

CLS Master's Student **Carol Wambolt** and Zoe Brooks, her distant committee member, have had an article accepted for publication in this month's issue of Medical Laboratory Observer.

### Presentations

**Dr. Jim Groome** presented "Deactivation defects in Paramyotonia Congenita Mutations F1473S and F1705I", at the 51st annual Biophysical Society Meetings in Baltimore, MD on March 3-6, 2007.

On Saturday March 10, 2007 the Intermountain Branch of the American Society for Microbiology held its annual meeting at the Pond Student Union Building on the ISU campus. Attendees rated the meeting a great success. Particular mention was made of the keynote address given by our own **Dr. Linda DeVeaux**, which was titled "**Never Give Up, Never Surrender: Persistence in Bacteria**". Department of Biological Students also excelled at the meeting. In the Oral Presentation Session, graduate student **William S. Blackmore** (M.S. in Microbiology in **Dr. Scalarone**'s laboratory) was awarded the \$100 First Place prize for his talk titled "**Effect of Thermal Treatment on a Chlorinated-Degrading Microbial Community**". Also in the Oral Presentation Session, graduate student **Allison Ray** (Ph.D. in Biology in **Dr. Magnuson**'s laboratory) was awarded the \$75

Second Place prize for her talk titled “**16S rRNA Pseudogene Detection in an Environmental Isolate**”. In the Poster Presentation Session, undergraduate student **Patrick Gygli** (B.S. in Microbiology, working in **Dr. DeVeaux**’s laboratory) was awarded the \$50 Third Place prize for his poster titled “**Ultraviolet Radiation Resistance in Mutants of the Model Archaeon *Halobacterium* sp. NRC-1**”. Congratulations to all our winners and thanks to all our attendees. Special thanks go to Dr. DeVeaux for presenting such an excellent keynote address upon the membership. For those of you unfamiliar with the American Society for Microbiology, it “... *is the oldest and largest single life science membership organization in the world. Membership has grown from 59 scientists in 1899 to more than 43,000 members today, with more than one third located outside the United States. The members represent 26 disciplines of microbiological specialization plus a division for microbiology educators.*” (information courtesy of <http://www.asm.org/>).

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## Employment Opportunities

### **Ph.D. Research Assistantship in Forestry/Botany Northern Arizona University, School of Forestry Flagstaff, Arizona**

The School of Forestry at Northern Arizona University, Flagstaff has a Ph.D. research assistantship available to work on the systematics of the dwarf mistletoes (*Arceuthobium* spp., *Viscaceae*) in the western United States.

The Ph.D. research assistantship includes a half-time annual stipend of \$17,533, a waiver of out-of-state tuition costs, \$600 reduction in the cost of in-state tuition, and health insurance. Additional salary may be provided depending on the qualifications of the successful applicant and the availability of additional research funding from grants. Applicants should have a master’s degree in botany, biology, forestry or a related discipline. The position starts on July 1, 2007.

Individuals interested in the assistantship should submit a short resume and a letter of interest by **April 15, 2007** to Dr. Robert Mathiasen, Box 15018, Northern Arizona University, Flagstaff, AZ 86011 or call/e-mail Dr. Mathiasen at 928-523-0882  
[/Robert.Mathiasen@nau.edu](mailto:Robert.Mathiasen@nau.edu)

### **THE NATURE CONSERVANCY IN IDAHO IS LOOKING FOR A LAND STEWARD TO MANAGE THEIR PROPERTIES IN EAST IDAHO.**

The Land Steward coordinates preserve and conservation area stewardship work and supports general operations in eastern Idaho. Duties include ecological monitoring and research, invasive species control, habitat restoration, facilities maintenance, trail and equipment maintenance, easement monitoring, field trips and volunteer coordination. The Steward will work with lessees and other staff to oversee implementation of livestock management, grazing plans, and agricultural leases for various preserves and properties. The majority of the steward’s time will be spent working in the field, directing volunteers and interns, as well as interacting with the public. This is a 7 month position with start date in early May and ending in November. Qualified applicants must have valid driver’s license and safe driving record. Position is supervised by the East Idaho Conservation Manager and supervises Flat Ranch seasonal staff and volunteers and works with Crooked Creek Preserve Manager, as well as other contractors.

**Applications will be considered until March 31, 2007.**

Chet Work

The Nature Conservancy, East Idaho Conservation Manager

151 N. Ridge Ave Idaho Falls, ID 83402

208-522-4350

[cwork@tnc.org](mailto:cwork@tnc.org)

**The Department of Biology at Pacific Lutheran University** is conducting a search for a two year Visiting Assistant Professor in Microbiology and Cell Biology to begin in the fall 2007. We seek an enthusiastic instructor who enjoys teaching introductory and upper level courses. Please submit your curriculum vitae, copies of undergraduate and graduate transcripts, a statement of teaching philosophy, and a statement of research interests; also arrange to have three letters of recommendation sent on your behalf. Please send all materials to Microbiology/Cell Biology Search Committee, c/o Dr. Ann Auman, Department of Biology, Pacific Lutheran University, Tacoma, WA 98447. **Review of applications will begin on March 26, 2007.**

**For more information please visit: <http://www.nsci.plu.edu/biol/jobs/htm>.**

**Western Watershed Projects** is looking for an upper division undergraduate or graduate student for summer and fall. The position will include field and office work. Contact Dr. John Carter at [wwshed@comcast.net](mailto:wwshed@comcast.net).

**Wanted: Two Undergraduate volunteers needed for Bighorn Sheep Habitat assessments in the Lost River.** The student will be a US Forest Service volunteer. If you are interested, provide a curriculum vitae and a letter summarizing your qualifications for field work to: Dr. R. Terry Bowyer, Department of Biological Sciences, ISU.

[bowyterr@isu.edu](mailto:bowyterr@isu.edu)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire an experienced Crew Leader to supervise the field operations of their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire Fish and Wildlife Scientific Aides to work on their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**The Cooperative North American Shotgunning Education Program (CONSEP)** is looking for an individual who: 1.) Is a reliable worker capable of being trained in laboratory and field research methodologies which require careful attention to detail and the following of an established scientific protocol; 2.) Is capable of sometimes physically demanding field work, frequently at odd hours and odd days; 3.) Is preferably active in waterfowl and/or upland bird hunting but with a strong scientific inclination, and definitely not just looking for a temporary "bird hunting" job." Job begins as close as possible to September 10, 2007 (negotiable), and ends approximately February 28, 2008. May be extended if need arises, CONSEP Board and applicant are willing, and funding becomes available.

For further details, contact Tom Roster, CONSEP Consultant, 1190 Lynnewood Blvd.,

Klamath Falls, OR 97601, Phone 541-884-2974, [tomroster@charter.net](mailto:tomroster@charter.net). Postmark resume, references (with current phone number for each), transcripts, and letter of interest by **March 23, 2007**.

**The Nature Conservancy in Idaho is looking for a Silver Creek Preserve Summer Intern.** Preserve Intern responsible for assisting preserve staff with daily operation and management of preserve. Duties include assisting with data collection, research, preserve maintenance, public outreach, and other preserve related activities. The majority of the intern's time will be spent in field with other volunteers and interns, as well as interacting with the public. This is a full time short-term (summer) position. Qualified applicant must be available to live at the preserve, begin work in mid- May, and have valid driver's license. See job description at [www.nature.org](http://www.nature.org) or call Dayna for more information 208-788-7910 Send resume and cover letter to P. O. Box 624 Picabo, ID 83348. **Applications will be considered until March 30, 2007.**

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## Notices

### Call for BYRP Mentors

Graduate Students:

The Biology Youth Research Program (BYRP) is now accepting applications for mentors for Summer 2007. Please refer to the BYRP webpage <http://www.isu.edu/bios/byrp/> for a description of the program and for the application materials. The program provides some money for research supplies when available.

### William Dee Whitehead Memorial Scholarship

Applications are available in the College of Arts and Sciences Office or at:

<http://www.isu.edu/scholar/forms/WhiteheadApp.pdf>

**Due date: March 23, 2007**

### Kasiska Scholarship

Applications are now available on the Biological Sciences Website:

<http://www.isu.edu/bios/undergradprog.shtml>, and in the main Biology office.

**Due date: March 30, 2007**

### Call For Papers:

Idaho Academy of Sciences Annual Meeting and Symposium

**April 19-21, 2007** at the Idaho National Laboratory/University Place in Idaho Falls, Idaho. Symposium Theme: Energy for the Future – Human & Ecological Considerations.

Full Information Website: [www.isu.edu/ias/](http://www.isu.edu/ias/)

### Nez Perce Tribe-Wolf Recovery Program

It is that time of year again where they are looking for volunteers for the Gray Wolf Recovery Program to aid in the 2007 summer field season. This is a great opportunity to gain valuable field experience while working in rugged and beautiful Idaho.

**Applications will be accepted from March 15, 2007 until March 31, 2007.** For more information please contact Mary Allen at 208-634-1061 or email at [marya@nezperce.org](mailto:marya@nezperce.org).

**Call for Proposals:**

**Graduate Student Research and Scholarship Committee - Funding for Fall Semester 2007** Guidelines for the Preparation of Proposals to the Graduate Student Research and Scholarship Committee available through this website

<http://www.isu.edu/research/gsrsc.shtml> or from the Office of Research, Fine Arts Building, Room 205, 282-2714. (If you have any questions or need more information, you can contact

**Kelsey Metzger, representative for Biology on GSRSC.) DEADLINE FOR PROPOSALS SUBMISSION is 5:00 PM, Wednesday, March 21, 2007, to Office of Research, Fine Arts Building Room 205.**



**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for March 25-30, 2007

Please submit newsletter information to Susan at [rittusa@isu.edu](mailto:rittusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a **Biological Sciences Faculty** meeting **Tuesday, March 26, 2007 at noon** in the **Speech Pathology building in room 315**.

### Seminars

**Dr. Lisette Waits**, University of Idaho, Department of Fish and Wildlife Resources, will present her seminar, "The Landscape Genetics Revolution: examples from bears and wolverines", **Monday, March 26, 2007 at 4 pm in the Plant Science Lecture Hall 114**. This seminar is being sponsored by the Biology Graduate Students.

**Dr. Leif Tapanila**, ISU Geosciences, will present his seminar, "The Fossil Record of Holes: Half a Billion Years of Symbiosis and Predation", **Thursday, March 29, 2007 at 4 pm in the Plant Sciences Lecture Hall 114**.

**Brandy Janzen** and **Janet Prevey**, graduate students, will present their graduate seminars on **Thursday, March 29 at noon in the Vocation Arts Building room 117**.

### Publications

**Ray, A.M. and R.S. Inouye**. 2007. Development of vegetation in a constructed wetland receiving irrigation return flows. *Agriculture, Ecosystems and Environments*, 121- 401-406.

### Presentations

The Annual NSF GK-12 Conference held in D.C. March 8-11, 2007 was a great success! The ISU GK-12 team (faculty, graduate students, teachers, and staff (**Dr. Rosemary Smith, Dr. Jeff Hill, Hannah Sanger, Kira Pontius, Katie Miller, John Loftin, Robert Miron**)) made several presentations and participated in special sessions. Our project also received two special awards- the Media Award for recognition of the success we have had in publicizing our GK-12 project (see trophy in the office!), and Third Place in the "Iron Scientist" competition (we combined forces with UIIdaho to meet the challenge of collaboratively teaching as many science concepts as possible in six minutes using a "secret ingredient" = paper cups (to see Katie Miller and her teammates' effort- see this video clip <http://gogk12.optics.ucf.edu/>)).

**Dr. Larry Farrell** gave a presentation on March 21, 2007 at the 1<sup>st</sup> National Native HIV/AIDS Awareness Day sponsored by the Shoshone Bannock Tribes. His focus was on

the history of HIV/AIDS, cellular level (affects on the human body) and the impact on Native Populations.

**Dr. Jeff Meldrum** and **Kelly Gehret**, graduate student, will be traveling to the annual meeting of the American Association of Physical Anthropologists, held in Philadelphia, March 28-April 1, 2007, to present *Plantar fascia micro-architecture at the ball of the hominoid foot*. **Dr. Meldrum** will also be presenting at the AAPA meetings with Lu Zene, Huang Yu, and He Jianing, of the Dept. of Archeology, Peking University, on the *Pedal skeleton of the Jinniushan hominin from the late Middle Pleistocene of China*. **Dr. Meldrum** will also be presenting with **Ralph Chapman**, of the Idaho Virtualization Laboratory, on *Morphometrics of the outline shape of hominid footprints*.

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### Awards

**Dr. Scot A. Kelchner** was awarded a \$6,000 National Science Foundation REU grant for Biology undergraduate Shannalee Christman. Shannalee will receive salary and research funds for her summer project, "Identification and Sequencing of Rapidly Evolving DNA Loci in Bamboos."

**Dr. Jeff Meldrum** received an award of \$7125 from Fidelity Investment (Richard Stepp) for the *North American Ape Project (NAAP) 2007: Sasquatch in the Central Rockies and the Colorado Plateau*.

**Dr. Ken Rodnick** and high school teacher Ebbie Williams have been awarded the 2007 Frontiers in Physiology Professional Development Fellowship and an 8.5 K stipend from the American Physiological Society. Ms. Williams, who teaches in the Lima Public Schools, (Lima, Montana), will be conducting research this summer in Pocatello and presenting her findings at the 2008 Experimental Biology Meeting in San Diego, California.

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### Proposals

**Magnuson, T.S.**, and A.J. Paszczyński. 2007. Directed Proteomics: Linking Function to Metagenome Data in Complex Microbial Systems. U.S. Department of Energy Genomes: GTL Program. \$760,680.

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### Travel

MRCF employees **Erin O'Leary-Jepsen** and **Michelle Andrews** will be traveling to Tampa, Florida for the annual meeting of the Association of Biomolecular Resource Facilities, March 31 - April 4, 2007.

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### Events

#### **Smallpox: The Ultimate Bioweapon**

A live interactive training with locations throughout Idaho. Wednesday, March 28, from 10am to 11am MT (9am to 10am PT). This session will review the etiology of smallpox, review the history of smallpox and mankind, address other pox viruses that still exist today, evaluate pox viruses as potential bioterrorist agents and, evaluate the potential bio-engineering of viruses to mimic the smallpox virus.

**Presenter: Dr. Malcolm Shields**, Department of Biological Sciences.

Locations : Pocatello : ISU Campus, Eli Oboler Library, Room B13, Idaho Falls :ISU-Idaho Falls, 1770 Science Center Drive, Room CHE 303, Twin Falls : ISU-Twin Falls Center, Evergreen Bldg, Room C-89, Boise : ISU-Boise, 12301 W. Explorer Drive, Suite 102, Room 141

Coeur d'Alene: Northern Idaho Center for Higher Education, 1000 W. Hubbard Street  
Registration: The session is FREE and registration will be at the door. If you have any questions, please call Kirsti at the ISU-Institute of Rural Health at 208-282-4436.

**Biology Graduate Students (BGS)** will be holding a Spring Sale fundraiser. The sale will be held on **April 21st**, in the **Biology Parking lot, from 9AM-1PM**. Anyone can bring in donations the week of the sale to be put in LS117, or before then, give to Kelsey Metzger. Questions can be directed to Kelsey Metzger, [metzkels@isu.edu](mailto:metzkels@isu.edu)

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### Employment Opportunities

**Field assistant** needed for small mammal trapping in southern California. No experience necessary. Dates: 14 May - 15 June (end date may vary). All expenses paid plus \$700 stipend. Contact Quinn at [shurquin@isu.edu](mailto:shurquin@isu.edu) to apply or for more information.

**The Sierra National Forest**, High Sierra Ranger Station, is currently advertising seasonal Biological Technician (Fisheries) positions through a nationwide job announcement on AVUE digital services. The official duty station will be located at the Prather Ranger Station, Prather CA. If you are interested in applying for this position, go to [www.avuedigitalservices.com](http://www.avuedigitalservices.com). Follow instructions on the AVUE website on how to create a personal profile. After your profile has been completed and accepted by AVUE you can apply for this job. Apply to the **Biological Technician (Fisheries) GS-404-4 (ADS04-WOFSJOBS-006DT) or GS-404-5 (ADS04-WOFSJOBS-007DT)**. Make sure when selecting one of your preferred duty locations to work at, to choose **California**, and then scroll to **Prather, CA** and select. ***If you do not select Prather, you cannot be considered for this position.***

For more information about the job, please contact **Stephanie Weber at (559) 855-5355 ext. 3343**, or e-mail questions to [stephanieweber@fs.fed.us](mailto:stephanieweber@fs.fed.us). Selections will be made by May 16<sup>th</sup>, 2007.

### BLM Upper Snake Field Office

The BLM will soon be hiring two summer field technicians for ecological site inventory duties for the 2007 field season. The positions will be located at the Upper Snake Field Office in Idaho Falls, Idaho. Because of the duration of the work and desired skills, the office is able to hire college students under the Student Temporary Experience Program (STEP). If you are interested in applying for these positions, please submit a resume and complete an OF-612, an OF-306, and an Enrollment Verification for Student Employment form and **mail by March 28, 2007** to: Bret Herres, Idaho Falls BLM, 1405 Hollipark Drive, Idaho Falls, ID 83402-2100.

If you have any questions about the positions, you can call Bret Herres at (208) 524-7544.

**Ph.D. Research Assistantship in Forestry/Botany  
Northern Arizona University, School of Forestry  
Flagstaff, Arizona**

The School of Forestry at Northern Arizona University, Flagstaff has a Ph.D. research assistantship available to work on the systematics of the dwarf mistletoes (*Arceuthobium* spp., *Viscaceae*) in the western United States.

The Ph.D. research assistantship includes a half-time annual stipend of \$17,533, a waiver of out-of-state tuition costs, \$600 reduction in the cost of in-state tuition, and health insurance. Additional salary may be provided depending on the qualifications of the successful applicant and the availability of additional research funding from grants. Applicants should have a master's degree in botany, biology, forestry or a related discipline. The position starts on July 1, 2007.

Individuals interested in the assistantship should submit a short resume and a letter of interest by **April 15, 2007** to Dr. Robert Mathiasen, Box 15018, Northern Arizona University, Flagstaff, AZ 86011 or call/e-mail Dr. Mathiasen at 928-523-0882

[/Robert.Mathiasen@nau.edu](mailto:Robert.Mathiasen@nau.edu)

**THE NATURE CONSERVANCY IN IDAHO IS LOOKING FOR A LAND STEWARD TO MANAGE THEIR PROPERTIES IN EAST IDAHO.**

The Land Steward coordinates preserve and conservation area stewardship work and supports general operations in eastern Idaho. Duties include ecological monitoring and research, invasive species control, habitat restoration, facilities maintenance, trail and equipment maintenance, easement monitoring, field trips and volunteer coordination. The Steward will work with lessees and other staff to oversee implementation of livestock management, grazing plans, and agricultural leases for various preserves and properties. The majority of the steward's time will be spent working in the field, directing volunteers and interns, as well as interacting with the public. This is a 7 month position with start date in early May and ending in November. Qualified applicants must have valid driver's license and safe driving record. Position is supervised by the East Idaho Conservation Manager and supervises Flat Ranch seasonal staff and volunteers and works with Crooked Creek Preserve Manager, as well as other contractors.

**Applications will be considered until March 31, 2007.**

Chet Work

The Nature Conservancy, East Idaho Conservation Manager

151 N. Ridge Ave Idaho Falls, ID 83402

208-522-4350

[cwork@tnc.org](mailto:cwork@tnc.org)

**The Department of Biology at Pacific Lutheran University** is conducting a search for a two year Visiting Assistant Professor in Microbiology and Cell Biology to begin in the fall 2007. We seek an enthusiastic instructor who enjoys teaching introductory and upper level courses. Please submit your curriculum vitae, copies of undergraduate and graduate transcripts, a statement of teaching philosophy, and a statement of research interests; also arrange to have three letters of recommendation sent on your behalf. Please send all materials to Microbiology/Cell Biology Search Committee, c/o Dr. Ann Auman, Department of Biology, Pacific Lutheran University, Tacoma, WA 98447. **Review of applications will begin on March 26, 2007.**

**For more information please visit: <http://www.nsci.plu.edu/biol/jobs/htm>.**

**Western Watershed Projects** is looking for an upper division undergraduate or graduate student for summer and fall. The position will include field and office work. Contact Dr. John Carter at [wwshed@comcast.net](mailto:wwshed@comcast.net) .

**Wanted: Two Undergraduate volunteers needed for Bighorn Sheep Habitat assessments in the Lost River.** The student will be a US Forest Service volunteer. If you are interested, provide a curriculum vitae and a letter summarizing your qualifications for field work to: Dr. R. Terry Bowyer, Department of Biological Sciences, ISU. [bowyterr@isu.edu](mailto:bowyterr@isu.edu)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire an experienced Crew Leader to supervise the field operations of their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire Fish and Wildlife Scientific Aides to work on their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**The Nature Conservancy in Idaho is looking for a Silver Creek Preserve Summer Intern.** Preserve Intern responsible for assisting preserve staff with daily operation and management of preserve. Duties include assisting with data collection, research, preserve maintenance, public outreach, and other preserve related activities. The majority of the intern's time will be spent in field with other volunteers and interns, as well as interacting with the public. This is a full time short-term (summer) position. Qualified applicant must be available to live at the preserve, begin work in mid- May, and have valid driver's license. See job description at [www.nature.org](http://www.nature.org) or call Dayna for more information 208-788-7910 Send resume and cover letter to P. O. Box 624 Picabo, ID 83348. **Applications will be considered until March 30, 2007.**

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## Notices

**Drs. Terry Bowyer and John Kie** have been appointed to a newly formed "Heritage Committee" by John Organ, President of The Wildlife Society. This committee will deal with "big picture" issues within the Society. The first charge to the committee is to review the Society's Code of Ethics.

**Dr. Tim Magnuson** has been awarded sabbatical leave for AY 07-08.

**Brandon Briggs'**, graduate student, efforts as a GK-12 Fellow at Highland High School were recently described in an article in the Idaho Examiner:

<http://www.idahoexaminer.com/education/3641/highland-high-mentors-tendoy-5th-graders>

**Idaho Trout Unlimited** announces its annual award of a scholarship from its endowment fund managed by the Idaho Community Foundation. The scholarship will be awarded at the end of 2007. This is a one-year nonrenewable award. Questions regarding the application process should be directed to the Idaho State Council of Trout Unlimited. Troy Tvrdy- (208) 265-2640; (troyt1@yahoo.com)

### **Call for BYRP Mentors**

Graduate Students:

The Biology Youth Research Program (BYRP) is now accepting applications for mentors for Summer 2007. Please refer to the BYRP webpage <http://www.isu.edu/bios/byrp/> for a description of the program and for the application materials. The program provides some money for research supplies when available.

### **Kasiska Scholarship**

Applications are now available on the Biological Sciences Website:

<http://www.isu.edu/bios/undergradprog.shtml>, and in the main Biology office.

**Due date: March 30, 2007**

### **Nez Perce Tribe-Wolf Recovery Program**

It is that time of year again where they are looking for volunteers for the Gray Wolf Recovery Program to aid in the 2007 summer field season. This is a great opportunity to gain valuable field experience while working in rugged and beautiful Idaho.

**Applications will be accepted from March 15, 2007 until March 31, 2007.** For more information, please contact Mary Allen at 208-634-1061 or email at [marya@nezperce.org](mailto:marya@nezperce.org).



**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for May 6 - 12, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, May 8, 2007 at noon in the Speech Pathology building, room 315.

### Presentations

**Dr. Ken Rodnick** along with his graduate student, **Pavan Battiprolu** and Mary Hicks, (research assistant, Dept of Veterans Affairs Medical Center, Boise, Idaho) presented at the Federation of American Societies for Experimental Biology, April 28-May 2, 2007, in Washington D.C.

**Poster 1:** "Sex Differences in Calcium Regulatory Proteins in immature rainbow trout (*Oncorhynchus mykiss*)."  
Authors: Dr. **Ken Rodnick\***, Mary Hicks, Herve A Gambliel, **Pavan K Battiprolu\***, Richard D Olson (\*ISU, others VA Medical Center, Boise, Idaho)

**Poster 2:** "Sex differences in cardiac glucose metabolism and function in immature rainbow trout (*Oncorhynchus mykiss*)."  
Authors: **Pavan K Battiprolu\***, **Adam C Goddard**, **Lisa Jaramillo**, **Dr. Ken Rodnick** (ALL from ISU, Biology)

This presentation was selected as "Hot Pick" for a press release and highlighted in April 30th issues of...

1. Postchronicle ([www.postchronicle.com/news/science](http://www.postchronicle.com/news/science))
2. Science Daily ([www.sciencedaily.com/releases](http://www.sciencedaily.com/releases))
3. Medical News Today ([www.medicalnewstoday.com](http://www.medicalnewstoday.com))
4. United Press International ([www.upi.com/news](http://www.upi.com/news) track/science)
5. Todays Science News ([www.brightsurf.com/news/headlines](http://www.brightsurf.com/news/headlines))
6. Huliq:Breaking News ([www.huliq.com](http://www.huliq.com))
7. [www.dailyindia.com](http://www.dailyindia.com)
8. [www.yubanet.com/artman/publish](http://www.yubanet.com/artman/publish)
9. [www.stayhealthynews.com/diseasesandconditions](http://www.stayhealthynews.com/diseasesandconditions)
10. [www.firstscience.com/home/news/breaking-news-all-topics](http://www.firstscience.com/home/news/breaking-news-all-topics)

And more hits found at google.com.

### Awards

Thank you to everyone who attended and participated in this year's microscopy display and contest, the students enjoyed the interaction and I really appreciated your participation. I know that this had the anticipation the equivalent of American Idol and you hardly slept this weekend waiting to hear the results. So by popular vote.....

1st place -**Doug Gardner** -- Dictyostelium fruiting body (Dr. Maureen Brandon lab)  
2nd place -**John Larkin and Yu Li** -- Immunohistochemistry of CRF neurons (Dan Selvage lab)  
3rd place - **Rakesh Mandal** -- multifocal image of neurons (Dr. Curt Anderson lab)

And in the 'most artistic category'

1st place -**Alan Crandal** -- Rat Hair (Dr. Rod Seeley lab)

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## Travel

**Dr. Rick Williams** and **Dr. Rosemary Smith** visited the Teton Science School on April 26-27, 2007 with the intention of developing closer ties with their students and faculty and ISU.

**Dr. Jeff Meldrum** traveled to the Willow Creek - China Flats Museum, in northern California, May 3- May 8, 2007 with Robert Schlader, assistant director of the Idaho Virtualization Laboratory, to create 3D virtual models of specimens housed there. While there he will make a public presentation and hold a book-signing.

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## Notices

We will be saying our farewells and having a potluck for **Tammy Pruett** on **Wednesday, May 16 from 11 to 1 in the conference room**. She will be moving with her husband Lee to Wyoming. Come join us in wishing her all the best and letting her know she will be greatly missed by all!

**The Portneuf Subunit of the American Fisheries Society** met on May 1, 2007 to draw winners for the raffle fundraiser, elect officers for 2007-2008, and to watch a video about cutthroat trout conservation entitled 'Rising From the Shadows'.

### **Raffle Winners:**

Winner of the Cutthroat Trout print: Carol Smith, teacher from Taylorview JR HS  
Winners of a dozen dry flies: Janet Bala and Mark Gamblin (Idaho Dept. of Fish and Game).  
As the very first raffle fundraiser for our student organization, we are excited about the participation by such a diverse group of people. **We thank everyone who bought raffle tickets!**

We also thank the hard work of our exiting officers (Mike Lance, Kevin Korasick, Rachel Wilkinson and Ryan Hillyard) as well faculty sponsors (Dr. Ernest Keeley, Dr. Colden Baxter). Our new officers for 2006-2007 are: Ryan Bellmore, Joe Benjamin, and Jesse Haddix.

Ryan and Joe promise even bigger raffle prizes, soup/chili feeds, and outdoor activities next year! Please contact Ryan or Joe if you are interested in watching Rising From the Shadows. The film is 30 minutes long and contains excellent underwater videography of cutthroat trout and other wildlife (some of the video was taken by Dr. Ernest Keeley). It would be an excellent way to introduce native fish conservation to grade school classrooms or anyone interested in cutthroat trout.



# ISU Newsletter



**Weekly Announcements for Apr. 29-May 5, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

There will **NOT** be a regular Biological Sciences Faculty meeting this week.

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## Seminar

**Dr. Brian Lanoil**, UC-Riverside, will present his seminar, "Microbiology of Icy Environments," Thursday, May 3, 2007 at 4 pm in the Plant Sciences Lecture Hall, 114.

**Gayathri Ananthkrashnan and Benjamin Franz**, Graduate students, will present their graduate proposal seminars on **Thursday, May 3, 2007 at noon in the Vocational Arts Building, room 117.**

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## Travel

**Dr. Terry Bowyer** will travel to Kingsville, Texas, the week of April 30 to May 4, 2007, for the Killam Endowed Lecture in White-tailed Deer Management from the Caesar Kleberg Wildlife Research Institute at Texas A&M University. He will give a technical presentation to faculty and students entitled "Detecting top-down versus bottom-up regulation in predator-prey systems: implications for management" and a talk open to the general public on "Sexual segregation in ruminants: why don't the sexes live together?" He also will give a talk to graduate students on "Rutting behavior in Alaskan moose." Dr. Bowyer also will participate in the grand opening of the new Ungulate Research Facility at Texas A&M.

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## Awards

**Dr. Nancy Huntly, Idaho State University professor of ecology and biology, has been named ISU's Distinguished Researcher for 2007. She will receive the award at Commencement May 12, 2007. Three additional Idaho State University faculty have received 2007 Outstanding Researcher Awards. Congratulations!!!!**

The 2007 Outstanding Researchers are David G. Adler, PhD, Political Science; Paul K. Link, PhD, Geosciences; and Susan Swetnam, PhD, English.

"Idaho State University is extremely fortunate to have faculty on staff with such dedication to educating our students and conducting world-class research," said ISU Provost and Vice President for Academic Affairs Robert A. Wharton, PhD.

**Dr. Huntly's** doctorate in ecology and evolutionary biology is from the University of

Arizona. Her research encompasses the areas of ecological dynamics and biodiversity. One external researcher says she is “universally viewed as a prime leader in this field.” Her most recent research includes a collaborative effort with ISU anthropologists Herbert Maschner, PhD, and Katherine Reedy-Maschner, PhD, to study the ecology of the Aleutian region of Alaska over the past several millennia. Her research has been amply funded – as principal or co-investigator; she has attracted more than \$4 million in grants to ISU.

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## Presentations

**Dr. Tim Magnuson** presented work from his research group at the Department of Energy-Joint Genome Institute User's Meeting in Walnut Creek, CA. March 28-30, 2007. The poster title was "Genome Sequencing and Annotation of the Acidophilic Metal-reducing Bacterium /Acidiphilium cryptum /JF-5" and the authors were **Tina Gresham, Brandon Briggs, Michael Swenson, Mitch Day, Loubin Yang, Michael A. Thomas, Peter P. Sheridan,** David Sims, Paul Richardson, Dave Kerk, David E. Cummings, and **Timothy S. Magnuson.**

**Dr. Tim Magnuson** presented work from his research group at the Department of Energy-Environmental Science Remediation Program Annual Investigators Meeting in Washington DC April 16-19, 2007. The poster title was "Genomic and Physiologic Discoveries in the Versatile Fe-reducing Bacterium /Acidiphilium cryptum /JF-5" and the co-authors were **Tina Gresham, Brandon Briggs, Michael Swenson, Mitch Day, Loubin Yang, Michael A. Thomas, Peter P. Sheridan,** David Sims, Paul Richardson, Dave Kerk, David E. Cummings, Andrew L. Neal, and **Timothy S. Magnuson.**

**Dr. Rosemary Smith** (PI of ISU's NSF-GK-12 Project) presented an invited talk on the elements of a successful GK-12 proposal, and participated in small group sessions, at a Funding Opportunity Conference sponsored by the National Science Foundation's Nevada EPSCoR Program, held on April 24-25, 2007, at the Desert Research Institute in Las Vegas and Reno.

**Brandon Briggs**, graduate student with **Dr. Tim Magnuson**, presented results of his M.S. thesis research at the American Society for Microbiology 4th ASM Conference on Biofilms in Quebec City, Quebec, Canada, March 25-29, 2007.

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## Notices

**ONE LAST CHANCE to win the framed Cutthroat Trout print on display in the office!**

To sweeten the pot (and open some wallets), we have added TWO additional prizes. The runners up prizes are 1 dozen dry flies. The winners can request their pattern of choice or accept a selection of dry flies that come with a guarantee to catch native Yellowstone Cutthroat Trout.

Tickets cost \$1 each or 6 tickets for \$5. The print is hanging in the office. See Steve Seiler for a sample of dry flies for the second and third place prizes. Tickets can be purchased from Tammy or Susan.

**The Portneuf Chapter of the American Fisheries Society** is a new ISU Student Organization that promotes the conservation of fish and aquatic resources in Southeast Idaho as well as educational, volunteer, and job opportunities for ISU students. This raffle is our very first fundraising effort.

**Please help the Portneuf Chapter of AFS get off the ground!**



# ISU Newsletter



**Weekly Announcements for April 22- 28, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

There will **NOT** be a regular Biological Sciences Faculty meeting this week.

**There will be a Special Faculty Meeting to discuss merit increases on Wednesday, April 25 at 4:30 in Plant Sciences Lecture Hall, 114**

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## Seminars

**Joseph Warwick**, MS student with **Dr. Dave Delehanty**, will present his Masters Defense seminar, "Bilateral asymmetry in chukar testes (*Alectoris chukar*) results in increased sperm production from the left testis," at **12:00 noon on April 23, 2007, in Nursing 209.**

**Deborah Johnson**, Ph.D. student with **Dr. Jeff Hill and Dr. Mike Thomas**, will be presenting her Ph.D. defense seminar, "Evolution of a gene family: A history of duplications, selection and divergence in land plant monosaccharide transporters," at **12:00 noon on April 24, 2007, in Nursing 220.**

**Peter Coates**, Ph.D student with **Dr. Dave Delehanty**, will present his Ph.D defense seminar, "Greater Sage-grouse Nest Predation and Incubation Behavior," at **12:00 noon on Wednesday, April 15, 2007 in the Vocational Arts Building, room 117.**

**Paul Atwood and Achut Poudel**, Graduate students, will present their graduate proposal seminars on **Thursday, April 26, 2007 at noon in the Vocational Arts Building, room 117.**

**Dr. Larry Forney**, University of Idaho, will present his seminar, "Ecology of the Human Vagina," at **4:00 pm on Thursday, April 26, 2007 in the Plant Sciences Lecture Hall, 114.**

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## Presentations

**Dr. Shawn Bearden** is speaking at the College of William & Mary, Virginia on "Blood Vessels: Aging, Exercise and Rotten Eggs," April 26-27, 2007.

**Nicole Wisniewski** (Bearden Lab) is presenting her research on the "Effects of Aging and Exercise on Cystathionine-gamma-lyase Expression in Mouse Gastrocnemius Muscle," at the Experimental Biology International Meeting of the Federation of American Societies for Experimental Biology, April 28-May 2, 2007, in Washington D.C.

**Kritika Chaudhari** (Bearden Lab) is presenting her research on the "Role of Sex and eNOS in Cystathionine-gamma-lyase Expression in Mouse Heart, Brain and Skeletal Muscle" at the Experimental Biology International Meeting of the Federation of American Societies for Experimental Biology, April 28-May 2, 2007 in Washington D.C.

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### **Awards**

Four Idaho State University Faculty have received 2007 Outstanding Researcher Awards. One will receive the 2007 ISU Distinguished Researcher Award at Commencement May 12, 2007. The 2007 Outstanding Researchers are David G. Adler, PhD, Political Science; **Nancy Huntly**, PhD, Ecology and Biology; Paul K. Link, PhD, Geosciences; and Susan Swetnam, PhD, English.

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### **Publications**

**J.M. Perkel**, "Stem Cells: Beyond Somatic Cell Nuclear Transfer," Science, vol. 316, p. 463, April 20, 2007.

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**Please help the Portneuf Chapter of AFS get off the ground!**

### **NATIONAL MEDICAL LABORATORY PROFESSIONALS WEEK**

**April 22-28, 2007**

National Medical Laboratory Professionals Week (NMLPW) is a time of recognition for the approximately 265,000 medical laboratory professionals and 15,000 board-certified pathologists who play a vital role in every aspect of health care. Since laboratorians often work behind the scenes, few people know much about the critical testing they perform every day. Laboratory scientists will celebrate the 32nd annual National Medical Laboratory Professionals Week April 22 – 28, 2007 with an emphasis on quality – both professional quality and the quality of care that laboratory professionals provide patients and their

physicians. This year's theme is "Quality Care from Quality Professionals." Lab Week began in 1975 as a joint project of several US laboratory organizations as a way to call attention to the largely "behind the scenes" work that goes on in many different kinds of laboratories – ranging from those in hospitals, battle field trauma units, and research teaching institutions. A few weeks ago, in a message to the laboratory profession, President George W. Bush said: "Medical laboratory professionals are meeting the needs of the sick and injured and bringing hope to patients and their loved ones. National Medical Laboratory Professionals Week is an opportunity to recognize the contributions of the dedicated men and women whose work helps detect and prevent disease, monitor treatment, and save countless lives."



# ISU Newsletter



## Weekly Announcements for April 15- 21, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a Biological Sciences Faculty meeting Tuesday, April 17, 2007 at noon in the Speech Pathology building, room 315.

### Seminars

**Madeleine Mineau**, PhD student with **Dr. Colden Baxter**, will present her PhD Proposal seminar, "Aquatic effects of a terrestrial invader: a 35-year natural experiment to investigate Russian olive effects on a desert spring stream ecosystem," on **Tuesday, April 17, 2007 at 2pm in Nursing room 209.**

**Deepika KC**, CLS graduate student with **Dr. Scot Kelchner**, will present her Masters Defense seminar, "Phylogenetics and Origin of Enterohemorrhagic *E. coli* Genes in Idaho," on **Tuesday, April 17, 2007 in the Speech Pathology building, room 315.**

**Tina Akpan** and **Carol Wambolt**, graduate students, will present their graduate seminars on **Thursday, April 19, 2007 at noon in the Vocational Arts Building, room 117.**

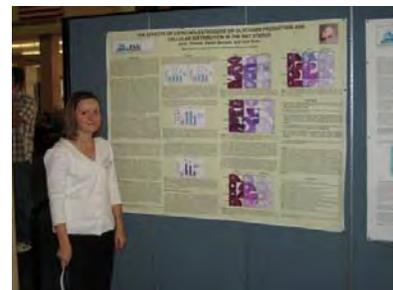
**Deborah Johnson**, Ph.D. student with **Dr. Jeff Hill** and **Dr. Mike Thomas**, will be presenting her Ph.D. defense seminar, "Evolution of a gene family: A history of duplications, selection and divergence in land plant monosaccharide transporters", at **12:00 noon on April 24, 2007, in Nursing 220.**

### Presentations

**Dr. Jack Rose** and three of his students, **Janie Thomas, Dan Mecham** and **Devon Rasmussen**, attended the 10th Annual Graduate Research Symposium held on April 4, 2007 at Utah State University in Logan. **Janie Thomas**, one of our Departments first 5 year BS-MS students, won first place (and \$150.00!!) in a field of 38 Poster Presentations.

Abstracts presented were:

Catecholestrogens regulate glycogen production in the uterus of the rat. Thomas, J., D. Mecham and J. Rose. Idaho State University, Department of Biological Sciences, Pocatello.



Effects of ovarian steroids and prolactin on glycogen accumulation in the mink uterus. Daniel Mecham, Janie Thomas and Jack Rose. Idaho State University, Department of Biological Sciences, Pocatello.

Effects of estradiol, progesterone and prolactin on mink uterine luminal and glandular epithelial cell growth. Devon Rasmussen, Daniel Mecham, Janie Thomas and Jack Rose. Idaho State University, Department of Biological Sciences, Pocatello, 83209

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## Events

**COLLOQUIUM by ISU's Outstanding Researchers** on Tuesday, **April 17, 2007 at 4:00 pm in Goranson Hall, Fine Arts Building**. For more information, contact the Office of Research or visit: [www.isu.edu/research/outstandingresearcherscolloquium.shtml](http://www.isu.edu/research/outstandingresearcherscolloquium.shtml)

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## Employment Opportunities

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- 1) Diane Debinski (Univ Iowa, 515-294-2460, [debinski@iastate.edu](mailto:debinski@iastate.edu)) is looking for someone to id plants in meadows of Teton and Yellowstone National Park.
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- 3) Cleve Davis (Pocatello BLM, [cleve\\_davis@blm.gov](mailto:cleve_davis@blm.gov), 478-6344) is looking for an assistant to help assess vegetation following fires and post fire treatments, around Pocatello.
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- 5) There are other prospects, including some in our department, posted on my bulletin board outside LS 409.

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#### **The U.S. Forest Service is hiring seasonal Fisheries Technicians in Alaska.**

This position will be located in Thorne Bay, AK, on Prince of Wales Island, for the summer of 2007. This is an excellent opportunity to gain field experience, see Alaska, and work in a team environment. If you're interested, don't mind the rain, and like a lot of field work, this is a great job.

**Send resume and letter to: Aaron Prussian, U.S. Forest Service, Thorne Bay Ranger District, Thorne Bay, Alaska 99919  
(907) 828-3225**

**Field assistant** needed for small mammal trapping in southern California. No experience necessary. Dates: 14 May - 15 June (end date may vary). All expenses paid plus \$700 stipend. Contact Quinn at shurquin@isu.edu to apply or for more information.

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## Notices

**TWO chances to win prizes and help student organizations!!!!**

**1. BGS is holding a 50:50 raffle.** The cost of the tickets are \$1 each or 6 tickets for \$5 and 50% of the ticket sales will go to the lucky winner. Buy your tickets from Katie Miller or Amanda Fisher. The drawing will be held at the end of this week.

**2. The Portneuf Chapter of the American Fisheries Society is holding a raffle for a framed cutthroat trout print.** Tickets cost \$1 each or 6 tickets for \$5. The print is hanging in the office and tickets can be purchased from Tammy or Susan. The drawing will be held at the May AFS chapter meeting.

Please help us wrap up successful fundraising events!

**Biological Sciences Outstanding Student and Outstanding Graduate TA award nominations** are now being accepted. **The deadline for application is Monday, April 23, 2007.** The winners will be announced at the reception honoring our graduation classes of Summer 2006, Fall 2006 and Spring 2007 on Friday, May 11, 2007.

### **Do You Have Opportunities for Undergraduates in Your Laboratories?**

Several Biology 102 students have asked about opportunities to participate in research as either volunteer or paid assistants. If you have such opportunities, please e-mail an announcement to [hillsher@isu.edu](mailto:hillsher@isu.edu) and it will be posted on the Biology 102 WebCT site.

**\$2,500 Fellowship Available for ISU Undergraduate Science and Engineering Students in Biological Sciences, Geosciences, Chemistry, Physics, Math and Engineering**

**Applications due April 20th, 2007.** Applications and additional information at:

<http://www.isu.edu/departments/gradk12/index.html>

**WHAT IS LEGO LEAGUE?** <http://www.usfirst.org/what/fl>

**Questions?** Contact Hannah Sanger at 282-6458 or [sanghann@isu.edu](mailto:sanghann@isu.edu)



# ISU Newsletter



**Weekly Announcements for April 8 - 14, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

**There will be a special Biological Sciences Faculty meeting to discuss library holdings on Tuesday, April 10, 2007 at noon in the Speech Pathology building, room 315.**

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## Seminars

**Larry Cook**, graduate student with **Dr. Richard Inouye**, will present his PhD Defense Seminar, "Cesium in soils and plants in the sagebrush steppe ecosystem," on **Wednesday, April 11, 2007 at 1pm in Nursing 209.**

**Heidi Alexander and Christina Kavron**, graduate students, will present their graduate seminars on **Thursday, April 12, 2007 at noon in the Vocational Arts Building room 117.**

**Dr. Merav Ben-David**, University of Wyoming, will present her seminar, "Evolutionary History and Fragmented Forests: A Tail of Two Martens," on **Thursday, April 12, 2007 at 4pm in the Plant Sciences Lecture Hall, 114.** Co-sponsor for this seminar is The Center of Ecological Research & Education (CERE). Dr. Bowyer will be hosting a potluck on Friday at 5:30.

**Dr. Anne Bowen**, University of Wyoming, will present her seminar, "Rural HIV Prevention on the Internet: Problem, Successes, and the Future," on **Friday, April 13, 2007 at 4:00 pm in the Plant Sciences Lecture Hall, 114.**

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## Publications

**Ogden, T. H** and M. S. Rosenberg. 2007. Alignment and Topological Accuracy of the Direct Optimization approach via POY and Traditional Phylogenetics via ClustalW + PAUP. *Systematic Biology*, Volume 56, Issue 2 March 2007, pages 182 - 193.

**Coates, P. S.**, J. O. Spencer, Jr., and **D. J. Delehanty**. 2007. Efficacy of CPTH-treated egg baits for removing ravens. In press.

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## Presentations

**Dr. Terry Bowyer, Dr. John Kie, Dr. David Person, and Dr. Jack Connelly** will present an invited paper, "Wildlife management and landscape ecology: integrating concepts and practice," at the US-IALE 22<sup>nd</sup> Annual Conference in Tucson, AZ, on May, 10, 2007.

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## Awards

**Pete Coates**, graduate student with **Dr. David Delehanty**, won the best student paper presentation award at the Idaho Chapter of the Wildlife Society Annual Meeting March 5-7, Pocatello, Idaho for his poster, "Greater sage-grouse incubation rhythms in relation to factors of age classes, timing of incubation, predation, habitat, and climate," with co-author Dr. David Delehanty.

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## Events

### **UNDERGRADUATE RESEARCH SYMPOSIUM, April 12, 2007**

Oral presentations: 3:00 – 5:00 pm

Poster presentation: 5:00 – 6:30 pm

Location: Physical Science Complex Lecture Hall and Lobby.

For more information, contact the Office of Research or Dr. Jim Groome (x2791) the Biological Sciences representative.

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*Tongass National Forest, Southeast Alaska*

**The U.S. Forest Service is hiring seasonal Fisheries Technicians in Alaska.**

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**Send resume and letter to: Aaron Prussian, U.S. Forest Service, Thorne Bay Ranger District, Thorne Bay, Alaska 99919  
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**The Sierra National Forest**, High Sierra Ranger Station, is currently advertising seasonal Biological Technician (Fisheries) positions through a nationwide job announcement on AVUE digital services. The official duty station will be located at the Prather Ranger Station, Prather CA. If you are interested in applying for this position, go to [www.avuedigitalservices.com](http://www.avuedigitalservices.com). Follow instructions on the AVUE website on how to create a personal profile. After your profile has been completed and accepted by AVUE you can apply for this job. Apply to the **Biological Technician (Fisheries) GS-404-4 (ADS04-WOFSJOBS-006DT) or GS-404-5 (ADS04-WOFSJOBS-007DT)**. Make sure when selecting one of your preferred duty locations to work at, to choose **California**, and then scroll to **Prather, CA** and select. ***If you do not select Prather, you cannot be considered for this position.***

For more information about the job, please contact **Stephanie Weber** at **(559) 855-5355 ext. 3343**, or e-mail questions to [stephanieweber@fs.fed.us](mailto:stephanieweber@fs.fed.us). Selections will be made by May 16, 2007.

**Ph.D. Research Assistantship in Forestry/Botany  
Northern Arizona University, School of Forestry  
Flagstaff, Arizona**

The School of Forestry at Northern Arizona University, Flagstaff has a Ph.D. research assistantship available to work on the systematics of the dwarf mistletoes (*Arceuthobium* spp., *Viscaceae*) in the western United States.

**The Ph.D. research assistantship includes a half-time annual stipend of \$17,533, a waiver of out-of-state tuition costs, \$600 reduction in the cost of in-state tuition, and health insurance. Additional salary may be provided depending on the qualifications of the successful applicant and the availability of additional research funding from grants. Applicants should have a master's degree in botany, biology, forestry or a related discipline. The position starts on July 1, 2007.**

**Individuals interested in the assistantship should submit a short resume and a letter of interest by April 15, 2007 to Dr. Robert Mathiasen, Box 15018, Northern Arizona University, Flagstaff, AZ 86011 or call/e-mail Dr. Mathiasen at 928-523-0882  
[/Robert.Mathiasen@nau.edu](mailto:Robert.Mathiasen@nau.edu)**

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**Notices**

**John Thorne**, graduate student with **Dr. Peter Sheridan**, has accepted a summer internship with The Venter Institute in Rockville, MD. He will be studying synthetic biology under Dr. Chuck Merryman.

**Biological Sciences Outstanding Student and Outstanding Graduate TA award nominations** are now being accepted. **The deadline for application is Monday, April 23, 2007.** The winners will be announced at the reception honoring our graduation classes of Summer 2006, Fall 2006 and Spring 2007 on Friday, May 11, 2007.

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**ISU**

Department of Biological Sciences

# Newsletter



**Weekly Announcements for Mar 31-Apr 7, 2007**

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

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## Faculty/Staff/Other Meetings

There will **NOT** be a **Biological Sciences Faculty** meeting **Tuesday, April 3, 2007**.

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## Seminars

**Dr.Carolyn Hovde Bohach**, University of Idaho, will present her seminar, "Host-Microbe Interactions between Cattle and *E. Coli* O157:H7", **Thursday, April 5, 2007 at 4 pm** in the Plant Science Lecture Hall 114. The seminar is being presented by the Department of Biological Sciences and Idaho INBRE.

**Wayne Hatch and Nicole Sheeley**, graduate students, will present their graduate seminars on **Thursday, April 5 at noon in Nursing 209**.

**Brandon Briggs**, graduate student with **Dr. Tim Magnuson**, will present his defense seminar, "Characterization of Biofilm Formation in *Acidiphilium cryptum* JF-5: Houses Made By Bacteria". April 6 at 11 am in Nursing 209.

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## Publications

**Jenks, J.A.**, C.N. Jacques, J.D. Sievers, R. W. Klaver, **R.T. Bowyer**, and D.E. Roddy. 2006. Evaluating Genetic Viability of Pronghorn in Wind Cave National Park. *The Prairie Naturalist* 38 (3).

**Wenniger, E.J. and R.S. Inouye**. 2007. Insect community response to plant diversity and productivity in a sagebrush-steppe ecosystem. In press. *Journal of Arid Environments*. (Erik Wenninger completed a MS degree at ISU.)

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## Presentations

Brandon Briggs, graduate student with Dr. Tim Magnuson, presented his poster entitled "Characterization of Biofilm Formation in *Acidiphilium cryptum* JF-5". With co-authors Andrew Neal and Dr. Timothy Magnuson, at the ASM Biofilm Conference March 25- 30, 2007, in Quebec City, Quebec, Canada.

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## Awards

**Dr. Ken Rodnick** and **Dr. Sophie St-Hilaire** received a 3-month grant from the Oregon Department of Fish and Wildlife for \$39,749. The title of the project is "Health Assessment of Oregon Coho Salmon Populations During their Fresh and Salt Water Life Cycles."

Congratulations to the following graduate students from Biological Sciences who were awarded NSF GK-12 Fellowships for the 2007-2008 academic year: **Sid Blackmore, Erin Naegle, Pam O'Hearn, Sue Parsons, Nicole Sheeley, and Nicole Wisniewski**. Five other graduate students from Engineering, Chemistry, and Geosciences also received awards. The Fellowships include a \$30,000 stipend and tuition. The graduate students will partner with a local teacher to bring their scientific research expertise into the classroom.

Congratulations to **Michael Lance**, undergraduate in **Dr. Colden Baxter's lab**, for his recent selection as this year's recipient of Outstanding Student Achievement Award for the College of Arts and Sciences' Natural Science/Mathematic division and **Chad Watts**, undergraduate in **Dr. Scot Kelchner's lab**, as runner up. There will be a recognition reception on May 11, 2007 at the alumni House from 4:30 to 7:00 pm.

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# ISU Newsletter



**Weekly Announcements for May 13-19, 2007**

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## Seminars

R. Todd Hartle, D.A. Candidate with **Drs. Rosemary Smith** and **Paul Beardsley**, will present his D.A. defense seminar, "Cultural factors influencing collaborations between K-12 science educators and scientific researchers using the ISU GK-12 project as a model," on **Friday, May 25, 2007 at noon in Room B06 in the Library Basement.**

## Awards

**Dr. Marjorie Matocq** was awarded \$14,279.00 for her proposal, "Evolution of the Major Histocompatibility Complex: The Role of mating Systems and parasitism in the Maintenance of immune System Diversity," by the ISU WeLEAD research committee.

**Dr. Linda DeVeaux** was awarded \$14,922.00 for her proposal, "Role of Persistence in Microbial Survival," by the ISU WeLEAD research committee.

**Dr. Jack Rose** was awarded \$14,000.00 for his proposal, "Histology Equipment Improvements for the Idaho State University Center for Biological Imaging," by the University Research Committee.

**Dr. Sophie St-Hiliare, Dr. Malcolm Shields,** Dr. John Eley were awarded \$19,170.00 for their proposal, "Development of an oral delivery system for infectious hematopoietic necrosis virus vaccines in rainbow trout," by the University Research Committee.

**Dr. Matt Germino** and Dr. N. Glenn were awarded \$180,000/3years for their project, "Interactions of boundary layer dynamics, hydrologic processes and disturbance on wind erosion of soil in semiarid shrub steppe," by the DOD.

## Events

The annual symposium co-hosted by the Department of Fish and Wildlife Resources at The University of Idaho and the Department of Biological Sciences at Idaho State University will be held on May 15-16, 2007 in Moscow Idaho. The theme of the symposium is:

**"Landscapes to Riverscapes: Bridging the Gaps between Research and Management of Stream Taxa and Their Ecosystems."**

**Dr. Terry Bowyer** will provide an introduction to the symposium, and chair a technical session on Theoretical Frameworks. **Dr. Colden Baxter, Dr. Chuck Peterson, Dr. G. Wayne Minshall,** and **Jason Jones** will be involved in the following professional

presentations at the symposium:

Christian Torgersen, Colden V. Baxter, and Hiram W. Li. "Pattern, Detection, Scope, and Preception in Riverine Ecology."

Charles R. Peterson, Jason L. Jones, and Colden V. Baxter. "Amphibians in Riverscapes."

Colden V. Baxter, Jeffrey H. Braatne, G. W. Minshall, and Christian E. Torgerson. "Pattern and Process in a Central Idaho Wilderness Riverscape: Land-water Linkages and the Fire Pulse."

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## Notices

We will be saying our farewells and having a potluck for **Tammy Pruett** on **Wednesday, May 16 from 11 to 1 in the conference room**. She will be moving with her husband, Lee, to Wyoming. Come join us in wishing her all the best and letting her know she will be greatly missed by all!



**ISU**

Department of Biological Sciences

# Newsletter



## Weekly Announcements for March 4- 10, 2007

Please submit newsletter information to Susan at [rittsusa@isu.edu](mailto:rittsusa@isu.edu)

### Faculty/Staff/Other Meetings

There will be a **SPECIAL Biological Sciences Faculty** meeting **Friday, March 9, 2007 at noon** in the **Speech Pathology building in room 315**. This meeting is to discuss the Histology candidates.

### Seminars

**Dr. Chris Downing**, University of Colorado, **Histology** position applicant, presented his seminar, "Animal Models, (Epi) Genetics and Alcohol", **Monday, March 05, 2007 at 11 am** in the **Plant Sciences Lecture Hall 114**.

**Sid Blackmore and Ryan Bellmore**, graduate students will present their graduate seminars on **Thursday, March 8 at noon** in **Vocational Arts Building room 117**.

**Dr. Jonathan Chase**, Washington University, will present his seminar, "Community Assembly in Time and Space", **Thursday, March 8 at 4pm** in the **Plant Sciences Lecture Hall 114**.

### Grants

**Germino MJ**, Graumlich LJ (U Arizona), Mantua N and Little J (U Washington). 2007. Climatic and biotic co-limitation of conifer establishment at treelines: addressing uncertainty in bio-climatic mode forecasts of forest change. \$335,000/3 years. DOE National Institute for Climate Change Research (NICCR) Competitive Grant Program.

### Publications

**E. R. Keeley**, E. A. Parkinson, and E. B. Taylor. 2007. The origins of ecotypic variation of rainbow trout: a test of environmental vs. genetically based differences in morphology. *Journal of Evolutionary Biology* 20: 725-736.

Lord, T. and **Baviskar, S**. 2007. "Moving Students from Information Recitation to Information Understanding: Exploiting Bloom's Taxonomy in Creating Science Questions". *Journal of College Science Teaching*. 36(5): 40-44.

**T. Heath Ogden** and Michael S. Rosenberg. March 2007. How should gaps be treated in parsimony? A comparison of approaches using simulation, *Molecular Phylogenetics and Evolution*, Volume 42, Issue 3: 817-826.

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## Presentations

**Jason Jones**, graduate student with **Dr. Chuck Peterson**, presented “A “tail” of two streams: Abundance and age class distribution of Rocky Mountain tailed frog larvae in two bio-geo-climatically different stream networks” at the University of British Columbia, Vancouver, British Columbia, on February 19-21, 2007 with co-authors **Dr. Charles Peterson** and **Dr. Colden Baxter** at the Riparian Management in Headwater Catchments Conference. Additionally, Jason traveled to Victoria, British Columbia on February 22-23, 2007 and gave a presentation titled "Abundance and age class distribution patterns of Rocky Mountain tailed frog larvae in two bio-geo-climatically different stream networks" with co-authors **Dr. Charles Peterson** and **Dr. Colden Baxter** at the Society for Northwestern Vertebrate Biology annual conference.

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## Travel

**Dr. Rosemary Smith** traveled to Portland, Oregon March 2-3, 2007 to cheer on the Idaho robotics teams competing in the FIRST robotics regional competition. The four southeast Idaho teams are supported by the NSF-funded GK-12 project and mentored by graduate Fellows from the College of Engineering.

**Drs. Rosemary Smith** and **Jeff Hill** (GK-12 PI's, Biological Sciences), **Hannah Sanger** (Project Coordinator), **Kira Pontius** and **Katie Miller** (Graduate GK-12 Fellows from Biological Sciences), and John Loftin and Robert Miron (District 25 science teachers) will travel to Washington D.C. March 8-11, 2007 for NSF's GK-12 Annual Meeting.

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## Events

**The Idaho Chapter of The Wildlife Society's 2007 Annual Conference**, “Navigating the Nature of the New West” will take place **March 5-7, 2007** in Pocatello, Idaho. The Biological Sciences Department will be presenting the following: National and Regional PARC Updates – **Chuck Peterson** (ISU, IMNH)

Herbivore optimization by North American elk: consequences for theory and management. **K.M. STEWART, R.T. Bowyer, and J.G. Kie.**

Genetic variation and population genetic structure of Townsend's bigeared bat (*Corynorhinus townsendii*) in southeast Idaho. **K. MILLER and M.D. Matocq.**

Footprint evidence for an unrecognized hominoid in the forest habitats of the Pacific and Inter-Mountain West. **D.J. MELDRUM and J. Mionczynski.**

Effects of estradiol, progesterone and prolactin on glycogen accumulation in the mink uterus. **E.D. MECHAM\*, J. Thomas and J. Rose.**

Reestablishing mountain quail into south-central Idaho. **R. TROY\*, J. Connelly, and D. Delehanty.**

Young bighorn (*Ovis canadensis*) males: can they successfully woo females? **J. Whiting, R.T. Bowyer, and J.T. FLINDERS\***.

Incubation rhythms of greater sage-grouse. **P.C. COATES\* and D.J. Delehanty.**

Seasonal response of elk to forest fuels reduction. **R.A. LONG\*, J.L. Rachlow, and J.G. Kie.**

Evaluation of techniques for categorizing group membership of white-tailed deer. **K.L. MONTEITH\*, C. L. Sexton, J.A. Jenks, and R.T. Bowyer.**

Using thermal landscapes to improve resource selection functions for black-tailed deer. **J.G. KIE and R.T. Bowyer.**

Sex differences in space use and group size of mountain sheep. **C. SCHROEDER\*, R.T. Bowyer, V. Bleich, and T.R. Stephenson.**

Group dynamics and timing of mating in American bison: effects of large males. **R.T. BOWYER, V.C. Bleich, X. Manteca, J.C. Whiting, and K.M. Stewart.**

Landscape use by greater sage-grouse: effects of habitat fragmentation. **J.F. SHEPHERD, K.P. Reese, and J.W. Connelly.**

Greater sage-grouse use of three tip sagebrush in south-central Idaho. **B. LOWE, D. Delehanty, and J. Connelly.**

Investigation chytridiomycosis in the boreal toad (*Bufo boreas boreas*) in Grand Teton National Park. **S. BRUER\*, S. St-Hilaire, P. Murphy, P. Sheridan, and C. Peterson.**

A “tail” of two streams: distribution and abundance of Rocky Mountain tailed frog tadpoles in two stream networks. **J.L. JONES\*, C.R. Peterson, and C.V. Baxter.**

Movement of prairie rattlesnakes in a mountainous landscape in central Idaho. **J. BAUDER\* and C.R. Peterson.**

Conservation biology of Great Basin rattlesnakes in sagebrush steppe ecosystems: landscape disturbance, prey availability, and rattlesnake reproduction. **C.L. JENKINS\* and C.R. Peterson.**

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### **Employment Opportunities**

**Western Watershed Projects** is looking for an upper division undergraduate or graduate student for summer and fall. The position will include field and office work. Contact Dr. John Carter at [wwshed@comcast.net](mailto:wwshed@comcast.net) .

**Wanted: Two Undergraduate volunteers needed for Bighorn Sheep Habitat assessments in the Lost River.** The student will be a US Forest Service volunteer. If you are interested, provide a curriculum vitae and a letter summarizing your qualifications for

field work to: Dr. R. Terry Bowyer, Department of Biological Sciences, ISU.  
[bowyterr@isu.edu](mailto:bowyterr@isu.edu)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire an experienced Crew Leader to supervise the field operations of their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**California Department of Fish and Game-Heritage and Wild Trout Program** are seeking to hire Fish and Wildlife Scientific Aides to work on their Wild Trout Survey Crew. For further information contact: Jeff Weaver at (916) 358-2870 or [jweaver@dfg.ca.gov](mailto:jweaver@dfg.ca.gov)

**The Nature Conservancy in Idaho is looking for a Silver Creek Preserve Assistant.** Preserve Assistant is responsible for assisting preserve manager with the daily operation and management of preserve. Duties include assisting with biological and ecological data collection, research, preserve maintenance, public outreach, and other preserve related activities. Majority of time will be spent working in the field, directing volunteers and interns and interacting with public. This is a full time 8 month position. Qualified applicant must be available to begin work early April, have access to reliable transportation, and have valid driver's license. See job description at [www.nature.org](http://www.nature.org) or call Dayna 208-788-7910. Send resume and cover letter to: PO Box 624 Picabo, ID 83348. **Applications will be considered until March 7, 2007.**

**The Cooperative North American Shotgunning Education Program (CONSEP)** is looking for an individual who: 1.) Is a reliable worker capable of being trained in laboratory and field research methodologies which require careful attention to detail and the following of an established scientific protocol; 2.) Is capable of sometimes physically demanding field work, frequently at odd hours and odd days; 3.) Is preferably active in waterfowl and/or upland bird hunting but with a strong scientific inclination, and definitely not just looking for a temporary "bird hunting" job." Job begins as close as possible to September 10, 2007 (negotiable), and ends approximately February 28, 2008. May be extended if need arises, CONSEP Board and applicant are willing, and funding becomes available. For further details, contact Tom Roster, CONSEP Consultant, 1190 Lynnewood Blvd., Klamath Falls, OR 97601, Phone 541-884-2974, [tomroster@charter.net](mailto:tomroster@charter.net). Postmark resume, references (with current phone number for each), transcripts, and letter of interest by **March 23, 2007.**

**The Nature Conservancy in Idaho is looking for a Silver Creek Preserve Summer Intern.** Preserve Intern responsible for assisting preserve staff with daily operation and management of preserve. Duties include assisting with data collection, research, preserve maintenance, public outreach, and other preserve related activities. The majority of the intern's time will be spent in field with other volunteers and interns, as well as interacting with the public. This is a full time short-term (summer) position. Qualified applicant must be available to live at the preserve, begin work in mid- May, and have valid driver's license. See job description at [www.nature.org](http://www.nature.org) or call Dayna for more information 208-788-7910 Send resume and cover letter to P. O. Box 624 Picabo, ID 83348. **Applications will be considered until March 30, 2007.**

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## Notices

### Call for BYRP Mentors

**Graduate Students:** The Biology Youth Research Program (BYRP) is now accepting applications for mentors for Summer 2007. Please refer to the BYRP webpage <http://www.isu.edu/bios/byrp/> for a description of the program and for the application materials. The program provides some money for research supplies when available.

### William Dee Whitehead Memorial Scholarship

Applications are available in the College of Arts and Sciences Office or at:

<http://www.isu.edu/scholar/forms/WhiteheadApp.pdf>

**Due date: March 23, 2007**

### Kasiska Scholarship

Applications are now available on the Biological Sciences Website:

<http://www.isu.edu/bios/undergradprog.shtml>, and in the main Biology office.

**Due date: March 30, 2007**

### Call For Papers:

Idaho Academy of Sciences Annual Meeting and Symposium

**April 19-21, 2007** at the Idaho National Laboratory/University Place in Idaho Falls, Idaho.

Symposium Theme: Energy for the Future – Human & Ecological Considerations.

Full Information Website: [www.isu.edu/ias/](http://www.isu.edu/ias/)

### Nez Perce Tribe-Wolf Recovery Program

It is that time of year again where they are looking for volunteers for the Gray Wolf Recovery Program to aid in the 2007 summer field season. This is a great opportunity to gain valuable field experience while working in rugged and beautiful Idaho.

**Applications will be accepted from March 15, 2007 until March 31, 2007.** For more information, please contact Mary Allen at 208-634-1061 or email at [marya@nezperce.org](mailto:marya@nezperce.org).

### Call for Proposals:

**Graduate Student Research and Scholarship Committee - Funding for Fall Semester**

**2007** Guidelines for the Preparation of Proposals to the Graduate Student Research and Scholarship Committee available through this website

<http://www.isu.edu/research/gsrsc.shtml> or from the Office of Research, Fine Arts Building, Room 205, 282-2714. (If you have any questions or need more information, you can contact

**Kelsey Metzger, representative for Biology on GSRSC.) DEADLINE FOR**

**PROPOSALS SUBMISSION is 5:00 PM, Wednesday, March 21, 2007, to Office of Research, Fine Arts Building Room 205.**

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## Alumni News

**Niles Hasselquist** and **Eliza Maher** (both have an MS in Biology from 2004), who met in our department and ending up working together because of their common interest in alpine treeline ecology, have announced their wedding plans for this summer. They had to live together in an 18 ft camper in a remote location at 10,000 ft asl for their research at ISU, and here is what Niles had to say: "I can not believe it...WE ARE GETTING MARRIED!!! I guess that is what happens when you spend the entire summer with someone (either you learn to hate them or you learn to love them). It is clear what happened in our case."