



LIFE SCIENCE NEWS

Published by the Institute of Arctic Biology in cooperation with the Department of Biology & Wildlife, College of Natural Science and Mathematics.

April 7, 2008

ANNOUNCEMENTS

WEDNESDAY, APRIL 9

12:30 p.m. - 209 Gruening

Biomedical Seminar

“What’s Up Down Under? Trends in Australian Indigenous Health Research”

Dr. Ursula G. King, Centre for Climate Change Research, University of New South Wales, Australia

Information: ffemd@uaf.edu

FRIDAY, APRIL 11

1:00 p.m. - 138 Irving II

Physiology Seminar

“Seasonal Effect of N6-Cyclohexyladenosine (CHA) on Induced-Metabolic Suppression in Arctic Ground Squirrels (*Spermophilus parryii*)”

Tulasi Jinka, UAF graduate student

Information: ffbet@uaf.edu

1:30 p.m. - 139 Irving II

Physiology Seminar

“The Development of the Hypoxic Ventilatory Response in the Brainstem of the American Bullfrog”

Justin Buehner, UAF graduate student

Information: ffbet@uaf.edu

\$\$ GRANTS AND AWARDS \$\$

Erich Follmann

“Evaluation of the Effectiveness of Raboral V-RG Oral Rabies Vaccine in Captive Arctic Foxes”

\$43,366

USDA/Animal and Plant Health Inspection Service

Cecile Lardon

“Health Promotion in a Yup’ik Community: Improving Health through Collaboration”

\$219,018

NIH

Caroline Van Hemert

“Multi Species Investigation of Beak Deformities in Resident Alaskan Birds”

\$15,000

UA Foundation - Angus Gavin

Emily Weiser

“Diet of Glaucous Gulls (*Larus hyperboreus*) on Alaska’s North Slope”

\$15,000

UA Foundation - Angus Gavin

NEW FUNDING OPPORTUNITIES

For 2008, IAB has budgeted funds to support at least twelve **Summer Graduate Research Fellowships** at up to \$6,500 each to support beginning or continuing MS and Ph.D. students sponsored by IAB faculty. The intent of this program is to provide starting or bridging stipend funds to graduate students who do not otherwise have support to enable them to concentrate full time during the summer on research and training related to their degree.

To receive an award, graduate students:

* must be eligible to receive stipend funding by 11 May 2008

LIFE SCIENCES SEMINAR

“Snow-Vegetation-Atmosphere Interactions in Treeline, Arctic and Sagebrush Environments”

Chris Hiemstra

Colorado State University

3:30 p.m., Friday, April 11, 2008

Elvey Auditorium, 214 Elvey Building

* must not be otherwise employed outside the university during the fellowship period

To be considered for a stipend award, graduate students and their advisors must submit to the IAB Director's Office (Dorothy Parkerson, fndrp@uaf.edu) by **5p.m., 18 April 2008**:

1. A CV of the student, including undergraduate GPA and GRE scores
2. A 1-2 page description of the research project including any training components
3. A letter of recommendation by the faculty advisor that includes why there is not other support available to the student

A one page report on graduate research and training accomplishments over the fellowship period will be due from the student to the Director by 1 September 2008.

Applications will be considered by a committee of IAB faculty who will recommend to the IAB Director. Awards will be announced by 30 April 2008.

Jack R. Luick Memorial Travel Fund
Deadline: May 31, 2007

for travel through November 30, 2008

Applications are being accepted from students seeking limited support (generally \$500 - \$1,000) for travel to upcoming scientific conferences in 2008.

Qualifications:

- Enrolled as a graduate student at UAF.
- In good academic standing.
- Pursuing a course of study in nutritional or physiological ecology of ungulates.

More information in IAB Director's Office, or call 474-6464.

PUBLICATIONS

2457. Stewart, KM, **RT Bowyer**, **RW Ruess**, BL Dick, J G Kie. Testing the herbivore optimization hypothesis: Experimental manipulation of elk population density. *Wildlife Monographs* 167, 1-24. 2006.

2458. Kade, A, VE Romanovsky, **DA Walker**. The n-factor of nonsorted circles along a climate gradient in Arctic Alaska. *Permafrost and Periglacial Processes* 17, 1-11. 2006.

2459. **Raynolds, MK, DW Walker, HA Maier**. NDVI patterns and phytomass distribution in the circumpolar Arctic. *Remote Sensing of the Environment* 102, 271-281. 2006.

2460. **Runstadler, JA, GM Happ**, RD Slemmons, ZM Sheng, **N Gundlach**, M Petrula, D Senne, J Nolting, DL Evers, **A Modrell, H Huson, S Hills**, T Rothe, **T Marr**, JK Taubenberger. Using RRT-PCR analysis and virus isolation to determine the prevalence of avian influenza virus infections in ducks at Minto Flats State Game Refuge, Alaska, during August 2005. *Archives of Virology* 152, 1901-1910. 2007.

2461. **Drew, KL**, CL Buck, **BM Barnes, SL Christian, BT Rasley, MB Harris**. Central nervous system regulation of mammalian hibernation: Implications for metabolic suppression and ischemia tolerance. *Journal of Neurochemistry* 102[6], 1713-1726. 2007.

2462. **Drew, KL**, T Fitka, Y Hu, U Ungerstedt. Non-exocytotic gaba overflow in rat striatum inhibits gnawing. *Life Sciences* 61[16], 1593-1601. 1997.

2463. O'Connor, WT, **KL Drew**, U Ungerstedt. Differential cholinergic regulation of dopamine release in the dorsal and ventral neostriatum of the rat. *Journal of Neuroscience* 15[12], 8353-8361. 1995.

2464. Kelley, AM, HE Epstein, WA Gould, AH Lloyd, CD Thompson, **FS Chapin III**, GJ Michaleson, CL Ping, TS Rupp, **DA Walker**. The nature of spatial transitions in the Arctic. *Journal of Biogeochemistry* 31, 1917-1933. 2004.

2465. **Walker, DA**, HE Epstein, WA Gould, AN Kade, AM Kelley, JA Knudson, WB Krantz, G Michaelson, RA Peterson, CL Ping, **MK Raynolds**, VE Romanovsky, Y Shut. Frost-boil ecosystems: Complex interactions between landforms, soil, vegetation, and climate. *Permafrost and periglacial processes* 15, 171-188. 2004.

2466. Jia, GJ, HE Epstein, **DA Walker**. Controls over intra-seasonal dynamics of AVHRR NDVI for the Arctic tundra in northern Alaska. *International Journal of Remote Sensing* 25, 1547-1564. 2004.

TRAVEL

- **Brian Barnes**, 4/7-13, Edmonton, Canada, attend AON Carbon meeting
- **Robert Baxter**, 4/9-13, Edmonton, Canada, attend AON Carbon meeting

- **Donie Bret-Harte**, 4/7-21, Edmonton, Canada, and Washington, attend AON Carbon meeting and 2nd Arctic Observation Networks meeting and
- **Allison Butler**, 4/9-14, Kodiak, AK, fieldwork
- **Todd Brinkman**, 2/28-5/27, Klawock, AK, fieldwork
- **Terry Chapin**, 4/6-23, University of Stockholm and University of Utah, invited speaker and presentation
- **Torben Christensen**, 4/9-13, Edmonton, Canada, attend AON Carbon meeting
- **Eugenie Euskirchen**, 4/11-13, Edmonton, Canada, attend AON Carbon meeting
- **Kevin Griffin**, 4/11-13, Edmonton, Canada, attend AON Carbon meeting
- **Brad Griffith**, 4/8-11, Laughlin, NV, attend The Climate and Deserts Workshop
- **Anja Kade**, 4/11-13, Edmonton, Canada, attend AON Carbon meeting
- **Lars Kutzbach**, 4/11-13, Edmonton, Canada, attend AON Carbon meeting
- **Peter Lafleur**, 4/11-13, Edmonton, Canada, attend AON Carbon meeting
- **Glenn Scott**, 4/1-7, Toolik Field Station, fieldwork
- **Mikkel Tamstorf**, 4/10-14, Edmonton, Canada, attend AON Carbon meeting
- **Hassab Ali, Dael Devenport, Jordan Lewis, and Kate McGone West**, 4/6-11, Kotzebue, AK, attend Managing Natural and Cultural Landscapes in Rural Alaska meeting

Quote of the week:

Honest criticism is hard to take - especially when it comes from a relative, a friend, an acquaintance, or a stranger.

- Franklin P. Jones