



# LIFE SCIENCE NEWS

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

February 26, 2007

## ANNOUNCEMENTS

### **TUESDAY, FEBRUARY 27**

1:00-2:00 p.m. – 201 IRV I

**Biobites** Seminar -Dept. of Biology & Wildlife GSA  
“The Biotechnology Computing Research Group & You”  
**Shawn Houston**, Technical Lead, Biotechnology  
Computing Research Group, INBRE/IAB, UAF  
Information: James Stone, [ftjds2@uaf.edu](mailto:ftjds2@uaf.edu), 457-2256

1:00-2:30, Globe Room, 212 Elvey

**Office of Sponsored Programs** training seminars:  
Topic: Pre-Award Fundamentals  
“An introductory seminar to UAF's OSP's procedures,  
policies, activities, and forms.”  
Information: [fyosp@uaf.edu](mailto:fyosp@uaf.edu), x6000

1:15-2:15 p.m. - Elvey Auditorium, 214 Elvey Building

**AQC Bering Sea Seminar Series**  
“Modern Pacific Throughflow and Links to  
Thermohaline Circulation and Climate”  
**Eddy Carmack**, Fisheries and Oceans Canada; UAF  
Chapman Chair Professor  
Information: [ffnhb@uaf.edu](mailto:ffnhb@uaf.edu), 474-5433,  
<http://www.uaf.edu/aqc/bss.htm>

3:40-5:15 p.m. - Elvey Auditorium, 214 Elvey Building

**Chapman Chair Lecture Series**  
“Planetary Atmospheres: A Half-Century of  
Exploration”  
**Conway Leovy**, University of Washington  
Information: [bhatt@gi.alaska.edu](mailto:bhatt@gi.alaska.edu), 474-2662

4 p.m. - 201 Natural Sciences Facility

Department of Chemistry and Biochemistry Seminar  
“Regioselectivity and Catalysis of the Diels-Alder  
Reaction in Aqueous Molecular Hosts”  
**Brittany Dykstra**, undergraduate student, Department  
of Chemistry & Biochemistry, UAF  
Information: [deal@iarc.uaf.edu](mailto:deal@iarc.uaf.edu), 474-1875

### **WEDNESDAY, FEBRUARY 28**

1 p.m. - 401 IARC

**International Arctic Research Center Seminar**  
“Tree-ring Research on Driftwood and  
Ethnoarchaeology of Wood Use in Alaska”  
**Claire Alix**, Alaska Quaternary Center, UAF  
Information: [jcherry@iarc.uaf.edu](mailto:jcherry@iarc.uaf.edu) or  
<http://www.iarc.uaf.edu>

2 p.m.-109 Butrovich Bldg. (Regents' Conference Rm)

**Department of Biology and Wildlife Thesis Defense**  
“The Role of Serotonergic (5-HT) Neuromodulation in  
Respiratory Chemosensitivity”  
**Deborah Fieldman**, M.S. candidate  
Information: [fsdmf6@uaf.edu](mailto:fsdmf6@uaf.edu), 474-1127

3:30 p.m. - Elvey Auditorium, 214 Elvey Building

**Institute of Marine Science Seminar**  
“Solving the Fish By-Products Puzzle”  
**Cindy Bower**, USDA Agricultural Research Service  
Information: <http://www.sfos.uaf.edu/events/> or  
[m.scholl@sfos.uaf.edu](mailto:m.scholl@sfos.uaf.edu), 474-6786

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## LIFE SCIENCES SEMINAR

**Mike Gillingham**

University of Northern British Columbia

**“Using Forest Structure to Monitor Vertebrate Diversity”**

Elvey Auditorium

Friday, March 2, 2007, 3:30p.m.

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## **THURSDAY, MARCH 1**

3:40-5:15 p.m. - Elvey Auditorium, 214 Elvey Building

Chapman Chair Lecture Series

“Mars: An Emerging Evolutionary Paradigm”

**Conway Leovy**, University of Washington

Information: bhatt@gi.alaska.edu, 474-2662

4 p.m. - 201A Natural Sciences Facility

Biochemistry/Molecular Biology Faculty Candidate

Research Seminar

“The Biochemistry of DNA Methylation in Oxidative Stress”

**Mihalis Panagiotidis**, University of North Carolina

Information: fychem@uaf.edu, 474-5510

## **FRIDAY, MARCH 2**

10 a.m. - 109 Butrovich Building (Regents' Conf. Room)

**Biology and Wildlife Dissertation Defense**

“Population Ecology of Pacific Common Eiders on the Yukon-Kuskokwim Delta, Alaska”

**Heather Wilson**, Ph.D. candidate

Information: fthmw@uaf.edu, 907-345-9849

1-2 p.m. - 138 Irving II

**Physiology Seminar**

“The Wildlife Toxicology Laboratory: Studying

Nutrition and Health of Arctic Species”

**Sara Moses, Cassie Kirk and Katrina Knott**, graduate students in Biology & Wildlife

Information: ftcmb3@uaf.edu, 474-5024

1-5 p.m. - 009 West Ridge Research Building

**Arctic Region Supercomputing Center**

“ARSC Spring Training: EMACS Part 3 (EMACS as a powerful Integrated Development Environment”

Registration required; see [www.arsc.edu](http://www.arsc.edu)

Information: <http://www.arsc.edu> or Anton Kulchitsky, kulchits@arsc.edu

## **📖📖 NEW PUBLICATIONS 📖📖**

The lowercase letters following IAB authors identify that author as (f) - faculty, (pd) - post doc, (g) - graduate student, (e) - emeritus, (ra) - research associate, (af) - affiliate faculty, (s) - staff, (ug) - undergrad, and (hs) - high school.

**2296.** Zhurbenko, M. P., **G. Laursen**, (f), **D. A.**

**Walker**, and (f). 2005. New lichen records for Alaska. *The Bryologist* 92: 201-12.

**2297.** Zhurbenko, M. P., **M. K. Reynolds**, (s), **D. A.**

**Walker**, (f), and M. V. Matveena. 2005. Lichens and lichenicolous fungi from the Kolyma delta region, Russian Arctic. *Graphis Scripta* 17: 27-29.

**2298.** Ping, C. L., G. J. Michaelson, J. M. Kimble, **D.**

**A. Walker**, (f). 2005. Soil acidity and exchange properties of cryogenic soils in Arctic Alaska. *Soil Science and Plant Nutrition* 51: 649-53.

**2299.** Cassanova, N., **K. M. O'Brien**, (f), B. Stahl, T.

McClure, and R. O. Poyton. 2005. Yeast flavohemoglobin, a nitric oxide oxidoreductase, is located in both the cytosol and mitochondrial matrix: Effects of respiration, anoxia, and the mitochondrial genome on its intracellular level and distribution. *Journal of Biological Chemistry* 280: 7645-53.

**2300.** Sidell, B. D., **K. M. O'Brien**, (f). 2006. When

bad things happen to good fish: the loss of hemoglobin and myoglobin expression in Antarctic icefishes. *Journal of Experimental Biology* 209: 1791-802.

**2301.** Darnall, R. A., **M. B. Harris**, (f), W. H. Gill, J.

M. Haffman, J. W. Brown, and M. M. Niblock. 2005. Inhibition of serotonergic neurons in the nucleus paragigantocellularis lateralis fragments sleep and decreases REM in the piglet: Implications for the sudden infant death syndrome. *Journal of Neuroscience* 25, no. 36: 8322-32.

**2302.** Ribeiro, R., S. Ingole, P. Asthana, B. Shi, **T. B.**

**Kuhn**, (f), and H. Liang. 2005. Biocomposites: Exploring surface texture for cell adhesion. *Journal of ASTM International* 2, no. 8: 1-6.

**2303.** Phillips, L. M. , **A. N. Powell**, (f), **E. A.**

**Rexstad**, (f). 2006. Large-scale movements and habitat characteristics of King Eiders throughout the nonbreeding period. *Condor* 108: 887-900.

**2304.** Phillips, L. M. , **A. N. Powell**, (f). 2006.

Evidence for wing molt and breeding site fidelity in king eiders. *Waterbirds* 29, no. 2: 148-53.

## **\$\$ GRANTS AND AWARDS \$\$**

**Christine Hunter**

Woods Hole Oceanographic Institute -transfer

**\$98,333.00**

“Populations Studies of the North Atlantic Right Whale”

## **📖 NEW FUNDING OPPORTUNITIES 📖**

**FYI...New FY08 Provision Fringe Benefit Rates are out and applicable to all new Proposals. See Proposal coordinators for new rate.**

**National Science Foundation (NSF 07-536)**

**International Polar Year, 2007.** The "International Polar Year 2007-2008" (IPY) will extend from March 2007 through March 2009. IPY is envisioned as an intense scientific campaign to explore new frontiers in polar science, improve our understanding of the critical role of the polar regions in global processes, and educate the public about the polar regions. Projects are expected to be interdisciplinary in scope; involve a pulse of activity during the IPY period; leave a legacy of infrastructure and data; expand international cooperation; engage the public in polar discovery; and help attract the next generation of scientists and engineers. **Please note** that the deadline for this solicitation is March 16, which is the UAF Spring Break Holiday. Since UAF will be closed that day, all proposals for this solicitation **must be submitted by the end of business, Thursday, March 15. No proposals will be submitted on Friday March 16. No exceptions.** Information: <http://www.nsf.gov/pubs/2007/nsf07536/nsf07536.htm>

*Quote of the week:*

**What the superior man seeks is in himself; what the small man seeks is in others.**

*Confucious*

   **DEADLINES**    \*

**March 1, 2007:** Graduation with Leadership Honors applications are due. For more information visit [www.uaf.edu/leadership/rec/](http://www.uaf.edu/leadership/rec/).

**March 2, 2007:** Nominations for seats on the Committee on the Status of Women are due. For more information contact Sheri Layral at 7964 or [fysenat@uaf.edu](mailto:fysenat@uaf.edu).

**March 2, 2007:** Nominations for the UAF Exceptional Student Employee Award are due. For more information call 7596 or visit [www.uaf.edu/career/](http://www.uaf.edu/career/).

**National Science Foundation (NSF 07-519)**

**Partnerships for Enhancing Expertise in Taxonomy (PEET).** Special Biennial Competition in Systematic Biology. *Synopsis of Program:* In partnership with academic institutions, botanical gardens, freshwater and marine institutes and natural history museums, NSF seeks to enhance taxonomic research and help prepare future generations of experts. Projects must train new taxonomists (two per project minimally) and must translate current expertise into electronic databases and other products with broad accessibility to the scientific community. **Deadline: March 5, 2007.** URL: [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf07518](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07518)