



LIFE SCIENCE NEWS

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

Monday, 4 May 2009

Announcements

UAF's proposed **Life Sciences Innovation and Learning Facility** is UA's top priority for new construction. Learn more about what's planned and why this facility is urgently needed for our students and for Alaska's premier life science research program.

The American Society of Mammalogists 2009 annual meeting will be hosted by IAB and the UA Museum of the North on the UAF campus June 24-28. Meeting co-chairs are Kris Hundertmark and Link Olson and the coordinator is Hayley Lanier.

UA Google Mail is now available to all UAF personnel

On 14 April 2009, OIT began consolidating UAF and Statewide email services into Google Apps @ UA. All accounts must be migrated to Gmail by the end of 2009.

There is a lot of information on the page linked below about Google Apps in general and Gmail in particular, including News and Information, and FAQs. To begin the process, and for more information, go to <https://www.alaska.edu/google/opt-in/>. If you have questions, call the OIT Support Center at 450-8300.

Once you have your new email address, please use the Submit Bio form (www.iab.uaf.edu/facstaff/submitbio.php) so that we can update the IAB database.

Events and Seminars

4 May 2009

- **Notice: Last Day of Classes**

5 May 2009

- **Thesis Defense: A Mosquito Model for the Transmission of Tularemia**
Alison N Triebenbach
9:30AM
201 O'Neill

6 - 9 May 2009

- **Notice: Final Exams**

- **Seminar: The Changing Effects of High-Latitude Terrestrial Ecosystems on the Climate System**
Eugenie Euskirchen
10:30AM
Elvey Auditorium, Elvey Building

- **Seminar: Straying of Hatchery-Produced Chinook Salmon is Related to Release Site in Southeast Alaska**
Hal Geiger
1:00PM
201 Irving I

7 May 2009

- **Social: CNSM 2009 Awards and Recognition BBQ**
12:00PM
Reichardt Building Front Lawn

- **Seminar: Clonality: Genetics, Ecology and Evolution of Sexual Abstinence**
Dr. John Avise
2:15PM
Elvey Auditorium, 214 Elvey Building

8 May 2009

- **Thesis Defense: Managing the National Wildlife Refuge**

No seminar scheduled this week.

System

Dawn Magness

12:30PM

IARC 417

10 May 2009

• **Notice: Commencement**

Travel

- **Black, Jaynene**, 4/28/09 - 5/6/09, YK region, data collection
- **Boyer, Bert**, 4/28/09 - 5/6/09, YK region, data collection
- **Chapin, Terry**, 5/3/09 - 5/6/09, Washington, DC, Attend Meeting: National Academy Science Climate Change Adaption Panel
- **Follmann, Erich**, 5/3/09 - 5/5/09, Anchorage, AK, attend meeting on North Slope field research
- **Gerken, Jon**, 5/1/09 - 5/11/09, Albuquerque, NM, presenting at the Western Division American Fisheries Society meeting
- **Hardy, Ira**, 4/4/09 - 6/2/09, Newark, NJ to Fairbanks, AK, invited guest speaker on "Climate Change" at the Effie Kokrine Charter School
- **Hopkins, Scarlett**, 4/23/09 - 5/6/09, YK region, data collection
- **Kane, Evan**, 4/8/09 - 5/10/09, Lansing MI to Fairbanks, AK, conduct a winter manipulation study at Bonanza Creek
- **Kohl, Franziska**, 4/27/09 - 5/15/09, Toolik Station, Fieldwork at Toolik Field Station
- **Laursen, Gary**, 5/8/09 - 5/21/09, Boston, MA- Concord & Durham, NH- Seattle, WA, Attend AK Statewide meeting/ High School Science Symposium- Rines Gala
- **Lee, Trixie**, 4/21/09 - 5/13/09, Toolik Station, Fieldwork at the Toolik Station
- **Lindberg, Mark**, 4/17/09 - 5/5/09, Washington, DC, attend Patuxent Wildlife Research Conference
- **Loring, Phillip**, 9/18/08 - 5/9/09, Arizona and Mexico, RAP Internship, Sonoram Institute
- **Margraf, Joe**, 5/2/09 - 5/8/09, Albuquerque, NM, attend the Western Division American Fisheries Society meeting

• **Olson, Matt**, 5/9/09 - 5/15/09, Reno, NV, Plant Mitochondrial Biology Conference and EPSCOR meeting

• **Orr, Eliza**, 4/30/09 - 5/7/09, YK region, data collection

• **Rivkin, Inna**, 4/27/09 - 5/9/09, YK region, data collection

• **Scott, Glenn**, 4/29/09 - 5/4/09, Toolik Station, Fieldwork at the Toolik Station

• **Shea, Katie**, 5/2/09 - 9/1/09, Fairbanks, Fieldwork at Bonanza Creek

New IAB Publications

Legend: **f**=faculty, **r**=research associate, **s**=staff, **e**=emeritus, **a**=affiliate, **g**=grad student, **p**=post-doc, **u**=undergrad student, **h**=high school student

Jurcevic, Slavica, Vlastelica, Mirela, **Allen, James (r)**, and Dahl, Solveig (2008). Gender differences in war-related disappearance in Croatia (1991-1995). *Psychiatria Danubina* 20:53-62 [IAB 2561].

Raynolds, Martha K. (g), Comiso, Josefino C., **Walker, Donald A. (f)**, and Verbyla, David (2008). Relationship between satellite-derived land surface temperatures, arctic vegetation types, and NDVI. *Remote Sensing of Environment* 112:1884-1894 [IAB 2572].

McGuire, A.D. (f), Walsh, J.E., Kimball, J.S., **Clein, J.S. (s)**, **Euskirchen, S.E. (r)**, Drobot, S., Herzfeld, U.C., Maslanik, J., Lammers, R.B., Rawlins, M.A., Vorosmarty, C.J., Rupp, T.S., Wu, W., and Calef, M. (2008). The Western Arctic Linkage Experiment (WALE): Overview and synthesis. *Earth Interactions* 12:1-13 [IAB 2585].

Wood, Stephen A., Beringer, Jason, Hutley, Lindsay B., **McGuire, A. David (f)**, Van Dijk, Albert, and Kilinc, Musa (2008). Impacts of fire on forest age and runoff in mountain ash forests. *Functional Plant Biology* 35:483-492 [IAB 2586].

Chapin III, F. Stuart (f), Randerson, James T., **McGuire, A. David (f)**, Foley, Jonathan A., and Field, Christopher B (2008). Changing feedbacks in the climate-biosphere system. *Frontiers in Ecology and the Environment* 6:313-320 [IAB 2587].

Chapin III, F. Stuart (f), **Trainor, Sarah F. (r)**, Huntington, Orville, Lovecraft, Amy L., Zavaleta, Erika, Natcher, David C., **McGuire, A. David (f)**, Nelson, Joanna L., Ray, Lily, Calef, Monika, Fresco, Nancy, Huntington, Henry, Rupp, T. Scott, **DeWilde, La'Ona (g)**, and Naylor, Rosamond (2008). Increasing wildlife in Alaska's boreal forest: Pathways to potential solutions of a wicked problem.

BioScience 58:531-540 [IAB 2588].

Turetsky, M.R. (r), Treat, C.C., Waldrop, M.P., Waddington, J.M., Harden, J.W., and **McGuire, A.D. (f)** (2008). Short-term response of methane fluxes and methanogen activity to water table and soil warming manipulations in an Alaskan peatland. *Journal of Geophysical Research* 113: [IAB 2589].

Calef, M.P., **McGuire, A.D. (f)**, and **Chapin III, F.S. (f)** (2008). Human Influences on Wildfire in Alaska from 1988 through 2005: An Analysis of the Spatial Patterns of Human Impacts. *Earth Interactions* 12:1-17 [IAB 2590].

Bret-Harte, M. Sydonia (f), Mack, Michelle C., **Goldsmith, Gregory R. (u)**, **Sloan, Daniel B. (u)**, DeMarco, Jennie, **Shaver, Gaius R. (r)**, **Ray, Peter M. (r)**, Biesinger, Zy, and **Chapin III, F. Stuart (f)** (2008). Plant functional types do not predict biomass responses to removal and fertilization in Alaskan tussock tundra. *Journal of Ecology* 96:713-726 [IAB 2591].

Oppel, Steffen (p), Dickson, D. Lynn, and **Powell, Abby N. (f)** (2009). International importance of the eastern Chukchi Sea as a staging area for migrating king eiders. *Polar Biology* 32:775-783 [IAB 2592].

Lowther, Peter E. and **Sharbaugh, Susan (r)** (2008). Arctic warbler (*Phylloscopus borealis*), *The Birds of North America Online* (A. Poole, Ed.). *American Birds of North America*. Ithaca: Cornell Lab of Ornithology. [IAB 2593].

Benowitz-Fredericks, Z Morgan (g), **Shultz, Michael T. (p)**, and **Kitaysky, Alexander S. (f)** (2008). Stress hormones suggest opposite trends of food availability for planktivorous and piscivorous seabirds in 2 years. *Deep-Sea Research II* 55:1868-1876 [IAB 2594].

Williams, Cory T. (g), **Kitaysky, Alexander S. (f)**, Kettle, Arthur B., and Buck, C. Loren (2008). Corticosterone levels of tufted puffins vary with breeding stage, body condition index, and reproductive performance. *General and Comparative Endocrinology* 158:29-35 [IAB 2595].

Shultz, Michael Todd (g) and **Kitaysky, Alexander Stanislav (f)** (2008). Spatial and temporal dynamics of corticosterone and corticosterone binding globulin are driven by environmental heterogeneity. *General and Comparative Endocrinology* 155:717-728 [IAB 2596].

Bentzen, Rebecca L. (g), **Powell, Abby N. (f)**, Williams, Tony D., and **Kitaysky, Alexander S. (f)** (2008). Characterizing the nutritional strategy of incubating king eiders *Somateria spectabilis* in northern Alaska. *Journal of Avian Biology* 39:683-690 [IAB 2597].

Addison, BriAnne, **Kitaysky, Alexander S. (f)**, and Hipfner, J. Mark (2008). Sex allocation in a monomorphic seabird with a single-egg clutch: test of the environment, mate quality, and female condition hypotheses. *Behavioral Ecology and Sociobiology* 63:135-141 [IAB 2598].

Takahashi, Akinori, Matsumoto, Kei, Hunt Jr. George L., **Shultz, Michael T. (g)**, **Kitaysky, Alexander S. (f)**, Sato, Katsufumi, Iida, Kohji, and Watanuki, Yutaka (2008). Thick-billed murres use different diving behaviors in mixed and stratified waters. *Deep-Sea Research II* 55:1837-1845 [IAB 2599].

Douglas III, Hector D., **Kitaysky, Alexander S. (f)**, and **Kitaiskaia, Evgenia V. (s)** (2008). Seasonal covariation in progesterone and odorant emissions among breeding crested auklets (*Aethia cristatella*). *Hormones and Behavior* 54:325-329 [IAB 2600].

Williams, Cory T. (g), **Kitaysky, Alexander S. (f)**, and Buck, C. Loren (2008). Food restricted Tufted Puffin (*Fratercula cirrhata*) nestlings increase vocal activity during handling without modulating total or free corticosterone. *Journal of Ornithology* 149:277-283 [IAB 2601].

Addison, BriAnne, **Benowitz-Fredericks, Z. Morgan (g)**, Hipfner, J. Mark, and **Kitaysky, Alexander S. (f)** (2008). Are yolk androgens adjusted to environmental conditions? A test in two seabirds that lay single-egg clutches. *General and Comparative Endocrinology* 158:5-9 [IAB 2602].

du Dot, Tiphaine Jeanniard, Rosen, David A.S., Richmond, Julie P., **Kitaysky, Alexander S. (f)**, Zinn, Steven A., and Trites, Andrew W. (2009). Changes in glucocorticoids, IGF-I and thyroid hormones as indicators of nutritional stress and subsequent refeeding in Steller sea lions (*Eumetopias jubatus*). *Comparative Biochemistry and Physiology Part A* 152:524-534 [IAB 2603].

Harding, Ann M.A., **Kitaysky, Alexander S. (f)**, Hall, Margaret E., Welcker, Jorg, Karnovsky, Nina J., Talbot, Sandra L., Hamer, Keith C., and Gremillet, David (2009). Flexibility in the parental effort of an Arctic-breeding seabird. *Functional Ecology* 23:348-358 [IAB 2604].

Douglas III, Hector D., **Kitaysky, Alexander S. (f)**, **Kitaiskaia, Evgenia V. (s)**, McCormick, Aidan, and Kelly, Anke (2009). Size of ornament is negatively correlated with baseline corticosterone in males of a socially monogamous colonial seabird. *Journal of Comparative Physiology B* 179: [IAB 2605].

Van Der Heyden, Marcel A.G., Kok, Bart, Kouwenhoven, Evelyn N., **Toien, Oivind (r)**, **Barnes, Brian M. (f)**, **Fedorov, Vadim (r)**, Efimov, Igor R., and Barnes, Brian M. (2007). Cloning, sequence analysis and phylogeny of connexin43 isolated from American black bear heart. *DNA Sequence* 18:380-384 [IAB 2606].

Fellman, Jason B. (f), D'Amore, David V., Hood, Eran, and **Boone, Richard D. (f)** (2008). Fluorescence characteristics and biodegradability of dissolved organic matter in forest and wetland soils from coastal temperate watersheds in southeast Alaska. *Biogeochemistry* 88:169-184 [IAB 2607].

Fellman, Jason B. (g), Hood, Eran, Edwards, Richard T., and D'Amore, David V. (2009). Changes in the

concentration, biodegradability, and fluorescent properties of dissolved organic matter during stormflows in coastal temperate watersheds. *Journal of Geophysical Research Biogeosciences* 114: [IAB 2608].

Fellman, Jason B. (g), D'Amore, David V., and Hood, Eran (2007). An evaluation of freezing as a preservation technique for analyzing dissolved organic C, N and P in surface water samples. *Science of the Total Environment* 392:305-312 [IAB 2609].

Computer Tip of the Week

UltimateDefrag will defragment your hard disk drive

If you have Windows XP, an important part of regular computer maintenance is keeping the fragmentation of files

on your hard disk drive to a minimum. (Both Mac OS X and Windows Vista manage disk fragmentation of the hard disk in the background.) Windows XP comes with a built-in defrag tool (called Disk Defragmenter -- go to Start > All Programs > Accessories > System Tools), but there are better tools available for free on the Web. A good defrag tool is UltimateDefrag Freeware Edition, which can be downloaded from

http://download.cnet.com/UltimateDefrag-Freeware-Edition/3000-2094_4-10582157.html From the Publisher: "More than just a defragger, UltimateDefrag is also a hard drive file placement optimizer that enables you to defrag and place your files in the areas on your hard drive where you achieve maximum performance. 80% of the time you only use 20% of the files on your hard drive. UltimateDefrag places your rarely used files out of the way and onto the slower performing areas of your hard drive making your drive perform like a new, almost-empty drive."

Quote of the Day

History never looks like history when you are living through it.

[John W. Gardner](#)

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