



LIFE SCIENCE NEWS

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Announcements

Cristina Hansen, UAF biology and wildlife PhD candidate and USGS Alaska Science Center volunteer won the 2014 Wildlife Disease Association Graduate Student Research Recognition Award for her paper "Microbial infection as a source of embryo mortality in wild geese on the Arctic Coastal Plain of Alaska," which provides the first evidence of bacterial-induced embryo mortality in the Arctic and in eggs of wild geese. As part of her award, Cristina was selected as the keynote speaker for the student presentation session. Hansen's research was conducted in collaboration with USGS Wildlife Biologists Brandt Meixell and Caroline Van Hemert, and was supported by funding from the USGS Wildlife Disease Program and the USGS Changing Arctic Ecosystems Initiative. More information about the USGS Alaska Science Center's Wildlife Disease Program can be found at http://alaska.usgs.gov/science/biology/wildlife_diseases/index.php.

Knut Kielland's book review of "Tundra-taiga biology: human, plant, and animal survival in the Arctic" is published in Ecology. Read more [here](#).

Welcome to Monica Armbruster, the new Fiscal Professional for the Alaska Cooperative Fish and Wildlife Research Unit. Monica comes to us from the Office of Grants and Contracts Administration, and we are delighted she's joining the AKCFWRU/IAB team. (Room 216A Irving I, 474-5924, mlarmbruster@alaska.edu)

Protection of minors mandatory training for all

UAF staff and faculty. Deadline 31 Aug. 2014. [Details here](#).

Title IX mandatory training for all UAF staff and faculty. Deadline 31 Aug 2014. [Schedule and instructions](#).

Events and Seminars

26 August 2014

• **ACCAP Webinar: Alaska Climate Webinar Series: El Niño and Alaska - Past, Present, and Future**
Rick Thoman and Jon Gottschalk
National Weather Service and NOAA Climate Prediction Center
10:00AM - 11:00AM
<https://accap.uaf.edu/node/1155>

29 August 2014

• **Thesis Defense: Trophic dynamics in a changing Arctic: Interactions between ptarmigan and willows in northern Alaska**
Katie Christie
UAF IAB, B&W
10:00AM - 11:00AM
Murie Life Science Bldg, Murie Auditorium.

Travel

• **Barnes, Brian**, 8/31/14 - 9/14/14, Skukuza, Kruger National Park, South Africa, Opening speaker, 5th International Symposium on the PPTR

• **Boldenow, Megan**, 7/20/14 - 8/25/14, Kotzebue,

Life Sciences Seminars in the Murie Auditorium, Fridays 3-4 p.m.
No seminar scheduled this week.

AK, Field work

- **Brown, Dana**, 8/29/14 - 9/4/14, Tok, AK, Field work
- **Brownlee, Annalis**, 7/2/14 - 8/31/14, Tok, AK, Field work
- **Edgar, Colin**, 8/9/14 - 8/27/14, Cherskiy, Russia, Field work
- **Epstein, Howard**, 8/31/14 - 9/4/14, Fairbanks, AK, Attend Arctic Biomass Workshop
- **Euskirchen, Eugenie**, 8/9/14 - 8/30/14, Cherskiy, Russia, Site visit and data collection
- **Kielland, Knut**, 5/15/14 - 10/15/14, Bonanza Creek, Field work
- **Kristal, Alan**, 8/25/14 - 8/27/14, Fairbanks, AK, Wk w/ CANHR investigators
- **Leewis, Mary-Cathrine**, 8/23/14 - 8/30/14, Seoul, South Korea, Attend International Society of Microbial Ecology Conference
- **Leigh, Mary Beth**, 8/23/14 - 8/30/14, Seoul, Korea, Present at the International Society for Microbial Ecology Conference
- **Marsh, Amy**, 7/8/14 - 10/15/14, White Mountains Nat'l Rec Area and Interior AK, Field work
- **Mulder Group**, 6/6/14 - 10/30/14, Bonanza Creek LTER Sites, field work
- **Nossov, Dana**, 7/8/14 - 10/15/14, White Mountains Nat'l Rec Area and Interior AK, Field work
- **O'Neal, Naomi**, 8/16/14 - 9/2/14, Nuiqsut, AK, Field work
- **Okano, Kyoko**, 8/11/14 - 9/5/14, Denali National Park, AK, Field work
- **Pomeranz, Justin and group**, 7/17/14 - 9/20/14, Chena River Basin, Field work
- **Rasmus, Stacy**, 8/21/14 - 8/29/14, Bellingham, WA, Project Collaboration Meeting/ Presenting
- **Robinson, Brian**, 5/9/14 - 9/4/14, Seward, AK, Field work/Thesis Research

- **Shoen Group**, 3/16/14 - 12/31/14, Chena and Tanana Rivers in North Pole and Fairbanks areas, Field work for Chinook predation project

- **Thomasson, Ariel**, 8/29/14 - 9/7/14, Fairbanks, Transporting and installing Trophic Cascades art exhibit

- **Zhou, Jiake**, 6/4/14 - 12/17/14, Fairbanks, AK, Attend UAF

Grants and Awards

Go to the IAB funding opportunities webpage, www.iab.uaf.edu/research/funding_opps.php, for the latest on available grants, scholarships, fellowships, and awards.

New IAB Publications

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

Wollheim, W.M., **Harms, T.K. (f)**, Peterson, B.J., Morkeski, K., Hopkinson, C.S., Stewart, R.J., Gooseff, M.N., and Briggs, M.A. (2014). Nitrate uptake dynamics of surface transient storage in stream channels and fluvial wetlands. *Biogeochemistry* 120:239-257 [IAB 3703].

Scudder, G. and **Sikes, D. (f)** (2014). Alaskan Heteroptera (Hemiptera): new records, associated data, and deletions. *Zootaxa* 3852:373-381 [IAB 3871].

Harms, Tamara K. (f), **Abbott, Benjamin W. (g)**, and **Jones, Jeremy B. (f)** (2014). Thermo-erosion gullies increase nitrogen available for hydrologic export. *Biogeochemistry* 117:269-299-311 [IAB 3872].

Dai, Z., Guillemette, K., and **Green, T.K. (f)** (2013). Stereoselective synthesis of aryl (gamma),(delta)-unsaturated (beta)-hydroxyesters by ketoreductases. *Journal of Molecular Catalysis B: Enzymatic* 97:264-269 [IAB 3873].

Jaramillo, M., Kirschner, D.L., Dai, Z., and **Green, T.K. (f)** (2013). Separation of sulfoalkylated cyclodextrins with hydrophilic interaction liquid chromatography. *Journal of Chromatography. A* 1316:92-96 [IAB 3874].

Dai, Z. and **Green, T.K. (f)** (2014). Synthesis of Aromatic Sphingosine Analogues by Diastereoselective Amination of Enantioenriched trans-(gamma),(delta)-Unsaturated (beta)-Hydroxyesters. *J. Org. Chem.* 79:7778-7784 [IAB 3875].

Balsler, A.W. (g), **Jones, J.B. (f)**, and Gens, R. (2014). Timing of retrogressive thaw slump initiation in the Noatak Basin, northwest Alaska, USA. *Journal of Geophysical Research: Earth Surface* 119:2013jf002889 [IAB 3876].

Schuur, E.A.G. (r), **Abbott, B.W. (g)**, Bowden, W.B., Brovkin, V., Camill, P., Canadell, J.G., Chanton, J.P., **Chapin, F.S., III (e)**, Christensen, T.R., Ciais, P., Crosby, B.T., Czimczik, C.I., Grosse, G., Harden, J., Hayes, D.J., Hugelius, G., Jastrow, J.D., **Jones, J.B. (f)**, Kleinen, T., Koven, C.D., Krinner, G., Kuhry, P., Lawrence, D.M., **McGuire, A.D. (f)**, Natali, S.M., **O'Donnell, J.A. (g)**, Ping, C.L., Riley, W.J., Rinke, A., Romanovsky, V.E., Sannel, A.B.K., Schädel, C., Schaefer, K., Sky, J., Subin, Z.M., Tarnocai, C., **Turetsky, M.R. (r)**, Waldrop, M.P., Walter Anthony, K.M., Wickland, K.P., Wilson, C.J., and **Zimov, S.A. (r)** (2013). Expert assessment of vulnerability of permafrost carbon to climate change. 119:359-374 [IAB 3877].

Jaffé, R., Yamashita, Y., Maie, N., Cooper, W.T., Dittmar, T., Dodds, W.K., **Jones, J.B. (f)**, Myoshi, T.,

Ortiz-Zayas, J.R., Podgorski, D.C., and Watanabe, A. (2012). Dissolved Organic Matter in Headwater Streams: Compositional Variability across Climatic Regions of North America. *Geochimica et Cosmochimica Acta* 94:95-108 [IAB 3878].

Flinn, Michael B., Bowden William "Breck", **Balsler, Andrew W (g)**, **Jones, Jeremy B. (f)**, and Gooseff, Michael N. (2014). Soil and Water Chemistry Characteristics of Thermo-Erosional Features in the Western Noatak River Basin, Alaska, USA. [IAB 3879].

Bowden, W.B., Larouche, J.R., Pearce, A.R., Crosby, B.T., Krieger, K., Flinn, M.B., Kampman, J., Gooseff, M.N., Godsey, S.E., **Jones, J.B. (f)**, **Abbott, B.W. (g)**, Jorgenson, M.T., Kling, G.W., **Mack, M. (r)**, **Schuur, E.A.G. (r)**, Baron, A.F., and Rastetter, E.B. (2014). An Integrated Assessment of the Influences of Upland Thermal-Erosional Features on Landscape Structure and Function in the Foothills of the Brooks Range, Alaska. Tenth International Conference on Permafrost [IAB 3880].

He, Y., Zhuang, Q., **Harden, J.W. (r)**, **McGuire, A.D. (f)**, Fan, Z., Liu, Y., and Wickland, K.P. (2014). The implications of microbial and substrate limitation for the fates of carbon in different organic soil horizon types: a mechanistically based model analysis. *Biogeosciences Discuss.* 11:2227-2266 [IAB 3881].

See the [UAF Cornerstone](http://cornerstone.uaf.edu) for more news and events (<http://cornerstone.uaf.edu>).

Quote of the Day

The season of failure is the best time for sowing the seeds of success.

[Paramahansa Yogananda](#)