

Hubbard Brook Monthly, March 2018, Sent 4/3/2018

Dear Colleagues,

Below and attached please find the March 2018 issue of the Hubbard Brook Monthly, a new regular newsletter sent out via this listserv to facilitate the sharing of information across the growing Hubbard Brook community.

As a reminder, the sections for future issues include: Recent Publications, Hubbard Brook in the News, Outreach and Education, New or Proposed Research, Save the Date, and Announcements. If you have an item you'd like to see included in the next issue, please send it to us no later than **April 27** using the following email address: sciencelinks@hubbardbrookfoundation.org

Best wishes, Clara Chaisson, Sarah Garlick, and Maribeth Rubenstein

HUBBARD BROOK MONTHLY March 2018 issue

Recent Publications (March 2018)

Sullivan, Timothy J., Charles T. Driscoll, Colin M. Beier, Dallas Burtraw, Ivan D. Fernandez, James N. Galloway, David A. Gay, Christine L. Goodale, Gene E. Likens, Gary M. Lovett, and Shaun A. Watmough. 2018. Air pollution success stories in the United States: The value of long-term observations. *Environmental Science & Policy* 84: 69-73.

<https://doi.org/10.1016/j.envsci.2018.02.016>

If your publication is missing from this list, please let us know:
sciencelinks@hubbardbrookfoundation.org

Hubbard Brook in the News

- Atlas Obscura: The Experimental Forest Where Scientists First Recognized Acid Rain
<https://www.atlasobscura.com/articles/hubbard-brook-experimental-forest>
- Mother Jones: Meet a 63-Year-Old, 7-800, Living Laboratory
<https://www.motherjones.com/environment/2018/03/meet-a-63-year-old-7800-acre-living-laboratory/>
- Concord Monitor: Study: N.H. sugar maples have a very hard time returning after a clear-cut
<http://www.concordmonitor.com/hubbard-brook-experimental-forest-maple-16354428>
- The Laconia Daily Sun: PSU Conference: Climate Change is Affecting Maple Syrup Production
<http://www.laconiadailysun.com/newsx/local-news/112997-climate-affecting-maple-syrup-production>

Outreach and Education Update (*Including recent and planned speaking engagements for public audiences, community outreach events, and K-12 education involvement*)

- Scott Bailey delivered a talk entitled “What if the Hubbard Brook Weirs Had Been Built Somewhere Else? Spatial Patterns in Stream Chemistry, Forest Soils, and Watershed Export” to the Department of Forest Resources and Environmental Conservation at Virginia Tech on March 16.
- Amey Bailey secured Youth Engagement Funds from the U.S. Forest Service to cover transportation costs to bring fourth grade students from local schools to visit the Hubbard Brook Experimental Forest this spring.

Proposed Research

Proposal Title:

Ash-Soil-Heterotrophs (ASH) project: Examining the Cascading Effects of the Loss of a Keystone Species, *Fraxinus americana*

Investigators:

Matthew Ayres, Dartmouth University
Liz Studer, Dartmouth College
Ashley Lang, Dartmouth College

Proposal Title:

Radionuclides as Tracers of Erosion Timescale in Intermittent Stream Sediments

Investigators:

Savannah Bailey, The College of William and Mary
James Kaste, The College of William and Mary

Proposal Title:

Exclosures to protect orchid spikes from florivory by white-tailed deer

Investigators:

Nat Cleavitt, Cornell University

Proposal Title:

Terrestrial Denitrification and Environmental Change

Investigators:

Christine Goodale, Cornell University
Peter Groffman, Cary Institute of Ecosystem Studies
Jennifer Morse, Portland State University
Linda Pardo, USFS
Cindy Nevison, University of Colorado-Boulder

Proposal Title:

Population assessment of terrestrial salamanders within an experimental forest

Investigators:

Evan Grant, Patuxent Wildlife Research Center

Jill Fleming

Adrienne Brand

Arianna Wills

Proposal Title:

Dynamic forest-stream interactions: acceleration of linkages conferring late-successional stream functions and flood resistance

Investigators:

William Keeton, University of Vermont

Dana Warren, Oregon State University

Scott Bailey, USFS

Peter Groffman, Cary Institute of Ecosystem Sciences

Dominik Thom, University of Vermont

Proposal Title:

Deciphering soil respiration sources and the importance of fluctuating redox conditions using apparent respiration quotients

Investigators:

Caitlin Pries, Dartmouth College

Proposal Title:

Tracing the fate of decomposing litter as it becomes soil organic matter in northeastern forests

Investigators:

Caitlin Pries, Dartmouth College

Proposal Title:

Quantifying tree-height and canopy position effects on stable carbon isotope ratios of wood

Investigators:

Matthew Vadeboncoeur, University of New Hampshire

Proposal Title:

Quantifying distributions and abundance of fish in HBEF streams

Investigators:

Dana Warren, Oregon State University

Winsor Lowe, Montana State University

Emily Bernhardt, Duke University

Emma Rosi, Cary Institute

Gene Likens, Cary Institute

Clifford Kraft, Cornell University

Denise Burchsted, Keene State College
Kerry Yurewicz, Plymouth State University
Ben Letcher, USGS
Keith Nislow, USFS
John Magee, NH Fish and Game

Save the Date

- The April Committee of Scientists meeting will be a joint meeting with guests from the Harvard Forest on **April 11, 2018** at the Cary Institute of Ecosystem Studies in Millbrook, New York. The meeting theme is Public Engagement with Science, led by Sarah Garlick and Kathy Fallon Lambert. Please RSVP using this link: <https://goo.gl/9WF486>
Agenda and more details: <https://hubbardbrook.org/articles/april-11-2018-committee-scientists-meeting>
- The Hubbard Brook Research Foundation is hosting a regular, informal journal club to read and discuss a relevant paper. The next discussion will happen on **April 17 at 12 p.m.** at Hubbard Brook headquarters. We'll be reading "[From Missing Source to Missing Sink: Long-Term Changes in the Nitrogen Budget of a Northern Hardwood Forest](#)" by Ruth D. Yanai et al. Everyone is welcome to join! Bring your lunch.

Announcements

- Gene Likens was awarded an honorary doctorate from Uppsala University in Uppsala, Sweden, in January to “celebrate his outstanding contributions to research in ecology and biogeochemistry.”
- Emily Bernhardt was named an Ecological Society of America Fellow on March 1. She is one of 28 ESA members honored for their contributions to advancing ecological knowledge in academics, government, non-profit organizations and the broader society.
- The Hubbard Brook website has a new subdomain for multimedia stories. Read the latest, "Data Collection Doesn't Break for Winter: A Photo Essay," here: <http://multimedia.hubbardbrook.org/winter-rounds-hubbard-brook>. The subdomain will soon be accessible from the homepage; watch this space for more content in the coming months.
- We are in the process of updating the dataset workflow to include the Environmental Data Initiative 'EMLassembleline in R' package. We hope to release a number of new datasets by the next monthly newsletter—stay tuned! Hubbard Brook is an early adopter of this new software, and we hope that this will streamline the data submission workflow from data creators, information management, and on to NSF and publisher recognized data repositories. Contact mary.martin@unh.edu with new Hubbard Brook data, and to make updates to existing datasets.

New and Revised Datasets

Cleavitt N. 2018. *Hubbard Brook Experimental Forest: Orchid Demography*. Environmental Data Initiative.

<http://dx.doi.org/10.6073/pasta/61708ab2ba996b843c1fee3e44bd6133>.

Driscoll C. 2018. *Chemistry of freely-draining soil solutions at the Hubbard Brook Experimental Forest, Watershed 1, 1996 - present.* Environmental Data Initiative.

<http://dx.doi.org/10.6073/pasta/5abc51d1a7fc704664b8fc5757e1b539>.

Driscoll C. 2018. *Chemistry of freely-draining soil solutions at the Hubbard Brook Experimental Forest, Watershed 6, 1982 - present.* Environmental Data Initiative.

<http://dx.doi.org/10.6073/pasta/5a60a95917487535a0d495c0c736094c>.

Thank you for reading! We appreciate your patience as we continue to refine our template to make this monthly update as beneficial and succinct as possible. We welcome your constructive suggestions.