Hubbard Brook Research Foundation Staff List

Clara Chaisson  
Outreach and Communications Manager  
cchaisson@hubbardbrookfoundation.org

Dan Clark  
Field and Maintenance Technician  
dclark@hubbardbrookfoundation.org

Sarah Garlick  
Director of Science Policy and Outreach  
sgarlick@hubbardbrookfoundation.org

Anthea Lavallee  
Executive Director  
alavallee@hubbardbrookfoundation.org

Brenda McCartney  
Chief Financial Officer  
bmccartney@hubbardbrookfoundation.org

Dan McConvey  
Development and Administrative Manager  
dmcconvey@hubbardbrookfoundation.org

Sarah Thorne  
Educator  
educator@hubbardbrookfoundation.org
The Hubbard Brook Research Foundation (HBRF) is a nonprofit organization that works to sustain and enhance the Hubbard Brook Ecosystem Study, in partnership with the USDA Forest Service, the National Science Foundation’s Long Term Ecological Research network (LTER), the National Science Foundation’s Long Term Research in Environmental Biology program (LTREB), the Hubbard Brook Consortium, and many colleges, universities, and research institutions.

The mission of HBRF is to promote the understanding and stewardship of forest ecosystems through scientific research and monitoring, logistical support, policy outreach, and education.

This Guide for Programs articulates how the Staff and Trustees at HBRF put our mission into action, enabling more scientists, students, and stakeholders to join us in our program work.

How to Get Involved – At a Glance

- Join the Hubbard Brook Consortium
- Book your research housing
- Partner with HBRF on your Broader Impacts work or other outreach ideas
- Join a Hubbard Brook Roundtable
- Propose a Science Links synthesis project
- Write an article for the website or e-newsletter
- Engage with us on social media
- Host a donor event
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Mirror Lake. Photo by Hannah Vollmer
Art–Science Integration

HBRF is dedicated to building a robust Art–Science program that supports collaborations between artists and scientists at Hubbard Brook. Already, we have seen such projects lead to deeper engagement with Hubbard Brook research and new ways of thinking about our data. The Long-Term Ecological Research Network is increasingly recognizing the need to foster collaboration between the environmental sciences and the arts, and Hubbard Brook is poised to become a leader in this growing network-wide effort.

Recent Projects

➢ WaterViz
WaterViz is Hubbard Brook’s flagship Art–Science program. This unique online animation of the water cycle transforms live-streaming data from Hubbard Brook into artistic visualizations and sonifications.

➢ Artist Residencies
Hubbard Brook is developing a new artist residency program, during which artists stay at Hubbard Brook for a weeklong period and collaborate with scientists on a project of their choosing.

➢ Storytelling
Hubbard Brook hosted its first ever live scientific storytelling event, The Moss, in July 2019. Nine Hubbard Brook community members shared personal stories on the theme of “Unexpected Encounters.”

Recent Artists

➢ Xavier Cortada
   https://cortada.com/
➢ Nikki Lindt
   https://www.nlindt.com/

How to Get Involved

If you would like to collaborate with a visiting artist or are interested in joining Hubbard Brook’s ArtSci steering committee, contact Lindsey Rustad at lindsey.rustad@usda.gov

Have a story to share? Contact Clara Chaissen for more information about participating in the next Moss event at cchaisson@hubbardbrookfoundation.org
Citizen Science

Citizen science projects offer an opportunity to apply Hubbard Brook questions and methods to new locations and are a vehicle for asking new scientific questions that explore beyond the boundaries of the experimental forest. Through these projects, we are building new partnerships with local land and conservation groups and engaging local residents in the scientific process.

Current Projects

▶ **Sugar Maple Regeneration**
Natalie Cleavitt from Cornell University is leading a citizen science project in partnership with the Society for the Protection of New Hampshire Forests to investigate sugar maple regeneration and the causes of potential sugar maple regeneration failure across the state. Cleavitt, along with undergraduates from Cornell and volunteer land stewards from the Forest Society, have established research plots on conservation lands across New Hampshire. Their first season of data collection occurred in 2019.

▶ **Squam Lakes Conservation Society Watershed Monitoring**
Sarah Thorne from HBRF and Amey Bailey from the USDA Forest Service are working with the Squam Lakes Conservation Society to establish a series of three long-term monitoring plots over an elevation gradient on the Doublehead Preserve, a 150-acre parcel of land owned by the conservation group. The goal of these plots is for volunteers with the Squam Lakes Conservation Society to collect long-term data for environmental monitoring and to serve as a demonstration site for educational purposes.

▶ **Camera Trapping with the Nature Conservancy**
Lynn Christenson and Stephen Kovari from Vassar College have partnered with the Nature Conservancy to install wildlife cameras on TNC lands in North Conway, New Hampshire to help TNC investigate questions about the impacts of recreational trails on wildlife patterns.

How to Get Involved

Successful citizen science projects typically involve well-defined goals, easily taught field methods, accessible field sites, and partnerships with one or more local groups. If you are interested in exploring these projects or other participatory research methods, we’d love to help. HBRF staff can work with you to build partnerships with local stakeholder groups and write research and foundation proposals to fund your ideas. Please email Sarah Garlick at sgarlick@hubbardbrookfoundation.org.
Facilities

HBRF aims to provide affordable, safe, comfortable, and convenient housing options for researchers and students during their stays at Hubbard Brook. The combination of Hubbard Brook’s remote location and its collaboration with researchers at institutions across the country make HBRF’s housing and laboratory facilities an integral part of the scientific endeavor. These facilities are also available to educational institutions and nonprofit organizations when not being used by Hubbard Brook scientists.

Housing

➤ Mirror Lake
Hamlet Drive, Woodstock, NH
The Mirror Lake campus consists of seven separate, fully equipped units on the shore of Mirror Lake.

➤ Pleasant View Farm
25 Dobson Hill Road, Thornton, NH 03285
The Pleasant View Farm campus is home to a three-story farmhouse that can sleep up to 14 people. Residents live cooperatively, sharing kitchen space, bathrooms, and chores. Tent camping is also available for a small fee.

Laboratory

The Henrietta Kendall Towers Lab sits on the grounds of the Pleasant View Farm campus and consists of three lab rooms, an acid wash room, and an office.

Work Spaces and Storage

HBRF provides storage and workspaces at both the Mirror Lake and Pleasant View Farm campuses.

How to Get Involved

To book lodging at Mirror Lake or Pleasant View Farm, contact Dan Clark at dclark@hubbardbrookfoundation.org

To inquire about workspaces, storage, or lab space, contact Geoff Wilson at wilsong@caryinstitute.org
Science Communication

Hubbard Brook is home to an impressive array of active research programs, maintenance and technical projects, educational initiatives, and more. HBRF’s Science Communication programs share the latest information from Hubbard Brook both externally with interested publics, and internally within the geographically dispersed and multi-institutional Hubbard Brook community.

Current Programs:

➢ Hubbard Brook Monthly
The Hubbard Brook Monthly is the electronic noticeboard for all things Hubbard Brook. At the beginning of each month, we send the Hubbard Brook Monthly to everyone on the Hubbard Brook listserv to highlight the work of the previous month. Sections include: Recent Publications, Hubbard Brook in the News, Outreach and Education Update, New or Proposed Research, Save the Date, and Announcements. Archived versions of the Hubbard Brook Monthly can be found at: https://hubbardbrook.org/hubbard-brook-monthly-view

➢ HBRF E-Newsletter
This quarterly newsletter helps our friends and donors keep a finger on the pulse of the major developments that have occurred at Hubbard Brook each season. Its sampler-platter approach gives readers a little taste of everything: photos from the field, research, outreach, accolades, staffing announcements, and fundraising.

➢ Forest Science News
The idea for Forest Science News emerged from a Hubbard Brook Roundtable, during which participants expressed the need for a regular digest of research relevant to the northern forest. Each month, we curate a roundup of engaging press releases and papers. Tim Fahey serves as the scientific editor.

➢ Website and Social Media
Hubbardbrook.org and our social media accounts are the face we present to the world, and as such they serve multiple audiences: scientists, students, teachers, technicians, policymakers, and interested publics. Hubbard Brook publications, classroom materials, contact information, photo galleries, facilities information, and staff bios all live on our website; our social media accounts share the most recent updates and amplify the work of our colleagues around the world.
How to Get Involved

Send submissions to the *Hubbard Brook Monthly* to
sciencelinks@hubbardbrookfoundation.org

Subscribe to the HBRF E-Newsletter here:
https://tinyurl.com/y3x9zs8

Subscribe to *Forest Science News* here:
https://tinyurl.com/forestsciencnews

Follow @HubbardBrookNH on Facebook and Twitter and share
your Hubbard Brook experiences on social media
Science Education Programs

HBRF’s science education programs bring students of all ages into the forest and take Hubbard Brook science into K-12 classrooms throughout New Hampshire and beyond. Participants in these programs grow up knowing the Hubbard Brook name and understanding the Hubbard Brook method, fostering an early appreciation for forest ecology and a familiarity for working with long-term datasets.

Current Projects

- **Research Experience for Undergraduates (REU)**
  These National Science Foundation-funded internships provide a summer of research experience at the Hubbard Brook Experimental Forest. Many former REUs have returned to work at Hubbard Brook later in their academic careers.

- **Classroom Materials**
  HBRF educators have worked closely with scientists and teachers to develop a suite of lesson plans and resources based on our long-term data and watershed manipulations.

- **Field Trips and Tours**
  HBRF and Forest Service staff offer tours of the Hubbard Brook Experimental Forest for school groups between May and October by appointment.

- **Children’s Book**
  *Seeking the Wolf Tree*, by Natalie Cleavitt, is a children’s book set at the Hubbard Brook Experimental Forest that uses an adventure story to introduce fundamental ecological concepts. Supplemental teaching materials inspired by the book are available on the Hubbard Brook website.

- **Conferences**
  HBRF educators regularly attend, and participate in, local and national education workshops and conferences.

How to Get Involved

Contact HBRF educator Sarah Thorne at educator@hubbardbrookfoundation.org
Science Outreach and Policy

The overarching goal of our science outreach and policy programs is to build connections between Hubbard Brook research and current environmental practice and policy in the northeastern U.S. We focus on activities that create trusting relationships between scientists and stakeholders (including opportunities for scientists to listen to stakeholders), synthesize scientific knowledge about policy-related issues, and build awareness of Hubbard Brook as an important resource in the region.

Current Programs

▶ Science Links
Science Links is Hubbard Brook’s flagship science policy program. Major Science Links projects include multi-year, multidisciplinary investigations of policy-relevant scientific questions and result in peer-reviewed publications, public reports, and media and policy outreach. HBRF has also recently worked to expand the Science Links program to include direct outreach and rapid response to policymakers.

▶ Hubbard Brook Roundtables
Hubbard Brook Roundtables are a method of engaging scientists and stakeholders in facilitated dialogue about issues of shared interest. Hubbard Brook Roundtables typically involve 1–2-day events with 10–25 invited participants. We conduct pre-meeting interviews to inform the agenda and use the facilitated dialogue to co-design outcome activities or products from the meeting.

▶ Hubbard Brook Advisory Council
The Hubbard Brook Advisory Council is a group of stakeholder advisors, including representatives from the White Mountain National Forest and local and regional nonprofits, as well as local foresters, community members, and educators. These volunteer advisors gather twice a year and on an ad hoc basis to offer advice to the Hubbard Brook community about how current research relates to issues of interest and concern in the region and about opportunities for outreach and engagement.

▶ Hubbard Brook Featured Speakers
Our Featured Speakers program provides a mechanism for stakeholder and community groups to invite Hubbard Brook scientists and education and outreach personnel for speaking engagements. HBRF handles all logistics of the requests we receive, and we can provide customized training and prep work before engagements.

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How to get involved

Successful outreach and policy programs begin with you! If you are interested in policy synthesis, roundtable dialogues with stakeholders, co-creating an outreach plan with our Advisory Council, or joining our Featured Speakers program, please let us know. We can help incorporate these programs into your Broader Impacts plans and we can write proposals to private foundations to fund these efforts. Please email Sarah Garlick: sgarlick@hubbardbrookfoundation.org.

Hubbard Brook Research Foundation
Administrative Offices
30 Pleasant Street, Woodstock, VT 05091
(802) 432-1042

Hubbard Brook Experimental Forest
Robert S. Pierce Laboratory
234 Mirror Lake Road
North Woodstock, NH 03262
Operated by the USDA Forest Service
Ian Halm, Site Manager
(603) 726-8902

www.hubbardbrook.org