

Letter from the Executive Director

am pleased to share the recent accomplishments of the Hubbard Brook Research Foundation (HBRF), a private, nonprofit organization founded to support and enhance the long-term ecological research at the Hubbard Brook Experimental Forest. In describing HBRF's mission, I speak often of the "Three Hubbard Brooks" — the Forest, the Study, and the Foundation. The Forest is a 7,800-acre scientific reserve which has been operated by the United States Forest Service since 1955. The Study is a collaborative effort of ecosystem scientists from dozens of research institutions, spanning nearly half a century. **The Foundation** is a friends group, think tank, and educator of the public. While each Hubbard Brook has a separate mission, our close collaboration has propelled the Hubbard Brook enterprise to the forefront of ecosystem studies, establishing it as a touchstone for field research conducted anywhere in the world. What makes Hubbard Brook truly special, setting it apart from other environmental studies, is the long term nature of the research. Over the course of five decades of intensive scientific study, a massive amount of data has been compiled, analyzed, and disseminated. Hubbard Brook is much more than a field site in the White Mountains of New Hampshire: it is a national treasure and a compelling model for how collaborative scientific research can be sustained over time.

This annual report provides a snapshot of the ways that HBRF supports the work at Hubbard Brook with policy outreach, education programs and housing and other facilities for scientists. Additional information can be found at our web site, *www.hubbardbrookfoundation.org*. This work could not be accomplished without the support of our federal partners, the Northern Research Station of the Forest Service and the National Science Foundation's LTER program; the institutional members of the Hubbard Brook Consortium; and the donors to our annual fund and projects. We thank them all for their continued support.

I also would like to give special thanks to Judy Brown, who recently left her position as Assistant Director at HBRF after more than ten years of service. Her own long-term record encompassed stints as Marketing and Development Director, Assistant Director, and Acting Executive Director. Judy was the institutional memory of HBRF, and she will be sorely missed.

Please consider visiting us at Hubbard Brook to see first-hand the extraordinary work that occurs at this special place.

Sincerely,

David Sleeper Executive Director June 2012



While each
Hubbard Brook
has a separate
mission, our
close collaboration
has propelled the
Hubbard Brook
enterprise to
the forefront
of ecosystem
studies.

Report photography: Judy Brown, Richard Guldin, Jordan Jessop, and Buck Sleeper

Printed on an FSC certified stock, 100% post consumer fiber



Founded in 1993, Hubbard Brook Research Foundation works to sustain and enhance the Hubbard Brook Ecosystem Study in New Hampshire, in partnership with the U.S. Forest Service/Northern Research Station, the National Science Foundation's Long-Term Ecological Research Network, the Hubbard Brook Consortium,

and 20 colleges, universities, and other research institutions.

Our goals are:

- To sustain and expand long-term ecological monitoring and research at the Hubbard Brook Experimental Forest.
- To bridge the gap between ecosystem science and public policy by enhancing the exchange of information among scientists, policymakers, and land managers.
- To foster public understanding of the functions of ecosystems and their importance to society and human health.

Trustees

Steven Hamburg, Chair Environmental Defense Fund

Stuart V. Smith, Jr., Vice Chair

Peter R. Stein, Secretary Lyme Timber Company

Stanton Williams, Treasurer

John Aber

University of New Hampshire

Christopher C. Barton Wright State University

Charles T. Driscoll, Jr. Syracuse University

Timothy J. Fahey Cornell University

Thomas F. Gross
Genesis Consulting S.A.

Richard T. Holmes Dartmouth College

Mark Latham Vermont Law School

Gene E. Likens
Cary Institute of Ecosystem Studies

Peter Martin

Jane E. S. Sokolow

Lindsey Rustad, Ex Officio U.S. Forest Service

F. Herbert Bormann Founding Trustee Emeritus Yale University

Advisory Council

Edward A. Ames Susan Arnold Posy Bass Alison Chase Dave Chase Starling Childs Anne Forcier Larry Forcier Isabel Freeman Dick Henry Joe Hill Harold Janeway Lia Kehler Thomas Kehler Laura Kent Sherman Kent Marcy Lyman Carol Pierce Connie Royster Jean Smith Larry Spencer

Staff

David Sleeper Executive Director

Anthea Lavallee Assistant Director

Elizabeth Miller
Director of Finance and Administration

Geoff Wilson Hubbard Brook Site and Program Director

Jacqueline Wilson Education Associate

Wayne Barstad Project Manager





HUBBARD BROOK CONSORTIUM

The Hubbard Brook Consortium is a membership group of research and supports the work of HBRF and the Hubbard Brook Ecosystem Study (HBES), with special emphasis on field research opportunities for undergraduates and public outreach events. Consortium members include the Cary Institute of Ecosystem Studies, Dartmouth College, Plymouth State University, Syracuse University, U.S. Forest Service/ and Wellesley College.

Hubbard Brook Research Foundation Administrative Offices

P.O. Box 282 North Woodstock, NH 03262 www.hubbardbrookfoundation.org

Pleasant View Farm and Mirror Lake Campus

25 Dobson Hill Road Thornton, NH 03285 Tel: 603-726-8911 Fax: 603-726-4451

Hubbard Brook Experimental Forest

Robert S. Pierce Laboratory Owned and operated by the U.S. Forest Service Ian Halm, Site Manager Tel: 603-726-8902



Science and Policy

HBRF launched its hallmark **Science Links** program in 2001 in an effort to bridge the gap between ecosystem science and public policy. Science Links projects convene teams of scientists and policy advisors to identify and define questions and issues affecting forest ecosystems and to communicate scientific findings clearly and succinctly to decision makers and other members of the public. To date, Science Links projects have addressed acid rain, nitrogen pollution, long-term ecological monitoring, mercury pollution, and community responses to carbon emissions. In 2006, HBRF established the **Hubbard Brook Roundtable**, a series of facilitated dialogues that bring scientists together with stakeholders, NGO leaders, and government officials to discuss timely issues. Previous Hubbard Brook Roundtables have covered wood biomass energy, ecosystem services payments, winter climate change, and forest carbon sequestration. Hubbard Brook roundtables have led to *Proof of Concept Projects*, two of which are described immediately below.

Poultney Woodshed Project

Generating wood biomass energy at the community scale is among the best ways to use the natural resources of the Northern Forest to mitigate climate change. The Poultney Woodshed Project, done in partnership with Green Mountain College (GMC) in Poultney, VT, sought to secure an increasing portion of the college's 5,000-ton biomass energy requirements from local, privately owned forestlands, with the wood harvested in a sustainable manner. The project brought traditional stewards of the forest - landowners, loggers, foresters, and mill owners together with GMC science faculty members, state natural resources officials, and leaders of nonprofit land-stewardship organizations. The result was an innovative system that tracks wood supplies for the college, encourages landowner participation in Vermont's Use Value Assessment Program, and helps create new markets for local wood energy. The Poultney Woodshed Project was supported with grants from the Rutland Regional Planning Commission with funding from the U.S. Department of Energy, High Meadows Fund, Riverledge Foundation, Merck Family Fund, and Northeastern States Research Cooperative.

Monetizing Ecosystem Services: CleanWaterFuture.org

In 2008, HBRF led a Hubbard Brook Roundtable as part of the 1st Summit for the Northern Forest to explore ways to monetize ecosystem services, rewarding private landowners for conserving natural services provided by forests. The roundtable resulted in a threeyear conservation-innovation grant from the USDA's Natural Resources Conservation Service, done in partnership with the American Forest Foundation and other organizations, to use market mechanisms to protect water-related ecosystem services in the Upper Connecticut River watershed. The keystone of the project is *CleanWaterFuture.org*, a web-based marketplace that uses crowd-funding techniques to enable people to contribute to on-theground conservation projects that protect watershed services. Along with funding from USDA/NRCS, the project has received financial support from Dartmouth College, the Davis Conservation Foundation, and many individual "investors" who have supported specific projects.

Clean Water Future

Northeast Science & Policy Consortium

In an effort to extend and strengthen its Science Links program, HBRF helped establish a consortium of research institutions that will explore ways to integrate science into the policymaking processes that are brought to bear on complex environmental issues in the northeastern United States. Along with HBRF, the founding members of the Northeast Science & Policy Consortium (NSPC) are: Cary Institute of Ecosystem Studies; The Ecosystems Center, Marine Biological Laboratory; Harvard Forest, Harvard University; Syracuse University; and University of New Hampshire. With seed funding in place from the initial member institutions, NSPC will seek multiyear funding from foundations and government agencies in order to hire a core staff, conduct media training for scientists, and launch five major policy projects. HBRF's initial project will use the extensive avian research at Hubbard Brook to develop interactive tools to assess the relative effects of different environmental threats on bird populations. HBRF's participation in the consortium is supported by grants from the Fine Fund and the Northeastern States Research Cooperative.



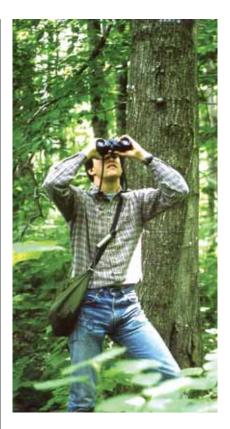
Education

HBRF was founded in part to amplify the impacts of the Hubbard Brook Ecosystem Study through education and community outreach. We achieve this by cooperating with regional groups engaged in teacher professional development; by working with undergraduate students to develop their research skills; by interacting with communities in New Hampshire and beyond; and by conducting field trips at the Hubbard Brook Experimental Forest for visiting schools and the general public.

The Environmental Literacy Program (ELP)

ELP is a cooperative effort with the U.S. Forest Service and the National Science Foundation's Schoolyard LTER program. It is designed to support secondary science teachers through hands-on training in scientific field methods and techniques, and also through the development of teaching resources. Participating teachers bring new perspectives and approaches to the classroom and, in so doing, invigorate the required science curriculum, their students, and fellow teachers. ELP produces lessons and slide shows for classroom use; mock exams to support teachers preparing their students for the New England Common Assessment Program; presentations to professional teacher organizations; and activities for A Forest for Every Classroom, a nationally renowned teacher professional development program.





Research Experience for Undergraduates (REU)

In 2011, HBRF paired five undergraduate students with principal investigators at Hubbard Brook who serve as research mentors. Students perform their own research projects, while also learning about science communication and how to collaborate with local nonprofit organizations. Students attend "Science Nights" with senior scientists and also the annual Hubbard Brook Cooperators' Meeting. The REU field season concludes with presentations by students of their research results.

Informal Science Education (ISE)

Our Informal Science Education Program is designed to engage the community at large in order to promote the understanding and stewardship of ecosystems through scientific research, long-term monitoring, and education. By introducing ecosystem science to the public, we hope to activate citizens to take ownership of our shared landscape, inspiring them to work together with neighbors, scientists, and legislators to affect positive change. A Hubbard Brook Roundtable on Winter Climate Change brought together ecosystem scientists with community stakeholders (see photo below) who use the winter landscape for their livelihoods and recreation. This roundtable will help inform a new program called Communities Exploring Ecosystem Science, which will explore how rural communities in New Hampshire understand and value the ecosystem services that derive from the forested landscape.

HBRF's education programs are funded by the U.S. Forest Service's Northern Research Station, the Northeastern States Research Cooperative, and the National Science Foundation's Schoolyard LTER program.





Stay at Hubbard Brook

Bring your family or group for a private eco-retreat at one of the world's best-studied experimental forests. Individual lakefront cabins at HBRF's Mirror Lake campus and communal lodging at Pleasant View Farm are available for rent to the general public and organizations during the non-research season, August through April. These facilities are ideal for organizational retreats or family get-togethers, especially during fall foliage or ski season. With advance planning, educational tours of the Hubbard Brook Experimental Forest can be arranged.



Mirror Lake Campus comprises a classroom and six cottages with eight separate living units that can accommodate up to 60 people.

For more information and to make a reservation, call 603-726-8911.

Our Donors

STEWARDSHIP CIRCLE

Honoring individuals who donate

\$1,000 or more

Anonymous

Lisa Cashdan and Peter Stein

Peter and Helen Fahey

Tim and Lois Fahey

Steven Hamburg and Sarah Barker

Richard and Deborah Holmes

Timothy A. Ingraham

Thomas and Lia Kehler

Pamela Kohlberg and Curt Greer

Peter Martin and Lynn Freeman

Wilhelm Merck

Carol J. Pierce 1

Sydney Pierce and Tim Zimmer 1

David M. and Barbara Roby

Nicholas L. Rodenhouse and

Marianne Moore

David and Cronin Sleeper

Emmy-Lou Sleeper

Mike and Jean Smith

Cyrus and Barbara Sweet

Stan and Jenny Williams

David and Susan Zimmerman

DONORS

John Aber

Edward A. Ames

Susan Arnold

David Austin

Mrs. Patricia A. Barker

Wayne Barstad and Anne Kapuscinski

Chris and Sarah Barton 2

Charlotte Belser

Putnam and Marion Blodgett

F. Herbert and Christine Bormann

Rebecca Bormann and Gary Oehlert

Judy and Jim Brown

Peter and Deborah Carter

Sallie W. Chisholm

Lvnn Christenson

Robert A. Cochran

Jacquie and Ken Colburn

Tom and Andrea Colgan

Dr. Christopher Cronan

Thomas and Dorcas Deans

Scott G. Dietrich

Alan and Jerry English

Fred Ernst

Steve Fahey

C. Anthony Federer 1

Allan and Myra Ferguson

Ruth R. Ferm

Larry and Anne Forcier

Jerry and Phyllis Franklin

Isabel and Jack Freeman

Jameson French

Andy and Katie Friedland

Milton and Carolyn Frye

Helaine Gants

Ralph D. Gants

Anne Giblin and Kenneth Foreman

Robert Gilmore

Mike and Margie Gottscho

Clark and Happy Griffiths

Evan S. Griswold

Peter Groffman

Tom and Maria Gross

Harry and Margaret Hampton

Bill and Jill Hatch

Kathy and David Hooke

Jim and Nancy Hornbeck

Alan Horton

Mark and Anne Marie Housel

Pamela Hunt

Harold Janeway

Edwin and Rita Johnson

Jean Jones

Robert A. Jones

Kevin and Punam Keller

Rolf Kielman

Chip and Susan Kimball

Michael Koterba and Joann Roskoski 1

Carola Lea

F. Thomas Ledig

Theodore A. Lee

H. Douglas Lightfoot

Gene and Phyllis Likens

Thomas E. Lovejoy

Gary M. Lovett

Mark Mattson

Barbara and Douglas McIlroy

Diane McKnight

Bruce and Susan McLaughry

Carolyn and Peter Mertz

Dr. and Mrs. Myron J. Mitchell

Arthur Mudge

Mr. and Mrs. Henry W. Parker

David Peart and Carol Folt

Heather Pembrook and Tom Pichler

Ralph and Christine Perron 1

Kevin Peterson and Rebecca Lovejoy

Ina and Mason Phelps

Bryant Pierce 1

Deborah Johnson Pyles

Chris and Leslie Rimmer

Elisabeth W. Russell

Dr. and Mrs. Douglas F. and Lillian M. Ryan

Hildy Fosse Sanderson

Jennifer and Mark Schiffman

Jill and John Schiffman

Nina Schoch

Frederick A. and Helena Schwalm

Jamie Shanley

Robin Shield and John Tariot

John Smitka and Amelia Bormann

Jane S. Sokolow

Andria and Trevor Staniec

Charlotte Stetson

Frank B. Stevens

Sharon J. Surra Henry and Freda Swan

Roger and Ann Sweet

David and Martha Talbot

Rick Van de Poll, Ph.D.

George Tuthill





Roy T. Van Vleck Thomas and Kathryn Wallace Louise and Charles Weed Geoff and Jackie Wilson Cindy and David Wood

FOUNDATIONS, BUSINESSES, INSTITUTIONS AND GOVERNMENT **AGENCIES**

Boloco Inspired Burritos, Stellar

Restaurant Group, Inc.

Cashdan/Stein Great Grandmother Fund

of the Vermont Community Foundation

Davis Conservation Foundation

Durgin and Crowell Lumber Company

The Fine Fund

High Meadows Fund

The Huether-McClelland Foundation, Inc.

Roy A. Hunt Foundation King Forest Industries, Inc.

Ledyard National Bank

Loomis, Sayles & Company

The Lyme Timber Company

National Science Foundation, LTER Program

New Hampshire Charitable Foundation,

Donor-Advised Funds: Children's Fund of the Upper Valley

Freeman-Martin Family Fund

The Tarleton Fund

Noyes Insurance Agency

Harold Whitworth Pierce Charitable Trust Riverledge Foundation

Rutland Regional Planning Commission

The Frank and Brinna Sands Foundation

U.S. Department of Energy

U.S. Department of Agriculture/NRCS

United States Forest Service

Wapack Foundation

¹ In honor of Robert. S. Pierce In honor of Curt & Alice Dietrich



Hubbard Brook Research Foundation

December 31, 2011 and 2010

Statement of Financial Position

ACCETC	2011	2010
ASSETS Cash and cash equivalents	2011 \$ 94,436	\$ 90,934
Pledges receivable	200	18,020
Grants receivable	38,242	16,971
Other receivables	2,440	198
Deferred expenses	0	74
Prepaid expenses	1,466	2,908
Total current assets	138,786	129,105
Property and equipment:		
Buildings and improvements	1,921,801	1,913,757
Equipment	68,682	68,682
Land	470,200	470,200
Less: accumulated depreciation	2,460,683 512,161	2,452,639 451,094
Total property and equipment	1,948,522	2,001,545
Total Assets	2,087,308	\$ 2,130,650
	, . ,-	, , , , , , , , , , , , , , , , , ,
LIABILITIES AND NET ASSETS Current Liabilities:		
Accounts payable and accrued liabilities	74,475	\$ 11,580
Deferred income	-	27,885
Accrued interest	-	819
Total current liabilities	74,475	40,284
Note Payable	714,909	707,934
Net Assets:		
Unrestricted	1,239,925	1,277,420
Temporarily restricted	57,999	105,012
Total net assets	1,297,924	1,382,432
Total liabilities and net assets	2,087,308	\$ 2,130,650
STATEMENT OF ACTIVITIES AND CHANGES IN NET ASSETS		
Revenue & support		
Contributions and grants	461,933	\$ 439,008
Rental Income	79,474	74,190
HBRF Consortium dues Donated Services	72,586 29,303	63,078
	29,505 13,806	47,170 9,802
Other Income		
Total revenues and support	657,102	633,248
Expenses Program costs:		
Facilities	198,600	167,946
Education	353,205	348,699
Total program expenses	551,805	516,645
Supporting services expense:		
Management and general	148,729	126,196
Fundraising	41,076	49,906
Total supporting services	189,805	176,102
Total expenses	741,610	692,747
Change in net assets	(84,508)	(59,499)
Net assets, beginning of year	1,382,432	1,441,931
Net assets, end of year	\$ 1,297,924	\$ 1,382,432
rice doored, clid of year	Ψ 1,4/,/41	Ψ 1,302,132

Note: These schedules should not be confused with HBRF's 2011 audited financial statements. That report, including footnotes and the auditor's opinion, is available upon request or may be found on the HBRF website.