Uniting People and Science for Conservation
The Vermont Center for Ecostudies (VCE) advances wildlife conservation across the Americas through research, monitoring, and community engagement.
DEAR VCE FRIENDS AND SUPPORTERS,

A year ago, we invoked the image of “kiting” by birds as a way to underscore the equanimity that VCE managed to achieve during 2020 in the midst of extraordinarily turbulent times. As we now reflect on 2021, who among us could ever have imagined a second year in which our world was beset by such profound uncertainty and disruption? As we write this in mid-spring, nearly two years to the day from when VCE conceded to the COVID-19 scourge and closed our office doors, staff continue to work remotely and to meet virtually. Yet our message to you—our friends, partners, volunteers, and supporters—is again every bit as proud, confident, and optimistic as it could possibly be. During the past year, VCE has not only stayed resolutely focused amidst external chaos, but we have also experienced unprecedented growth and vigor.

As the following pages attest, VCE broke new conservation science ground in 2021—shedding light on invertebrates, collaborating with Missisquoi National Wildlife Refuge to survey wild bees, “blitzing” Eastern Meadowlarks statewide, and initiating a first-ever giant silk moth cocoon watch. Our new “Science to Policy” working group embodied tangible conservation application. On Hispaniola, we helped our local partners launch an ambitious forest restoration program in beleaguered Sierra de Bahoruco. And we steadfastly maintained our signature long-term wildlife monitoring efforts, celebrating a record loon breeding season (109 nesting pairs!) and completing our 21st year of Mountain Birdwatch surveys.

VCE’s mission may focus on wildlife, but it is people who provide the heart, drive, and skill to power our engine. Despite a prolonged pandemic, our community scientists stayed as connected and committed as ever in 2021, invigorating us and taking our projects to new heights. Internally, we brought on several staff who have added transformative talent and depth: Director of Conservation Science Ryan Rebozo, Director of Communications Emily Anderson, Data Scientist Mike Hallworth, Development Manager Laura Prothero, and Development Coordinator Kimberly Kemler. We’re phenomenally fortunate to have the team we do.

As we look ahead to 2022, promise and opportunity dominate our conservation science agenda and our mindset. By year’s end, a new executive director will exert fresh energy, novel approaches, and a visionary outlook for VCE’s future. You can be certain that we won’t waver from our mission or change our core culture, but we will adapt, diversify, innovate, and continue to gain strength. As always, we’ll look to you—our extended family—to help us meet the challenges, navigate the turbulence, and make a difference for biodiversity. We wouldn’t have it any other way.

CHRIS RIMMER
EXECUTIVE DIRECTOR

PETER BROOKE
BOARD CHAIR
“Our primary goal is to document changes in abundance and biomass of invertebrates as climate change advances.”

—JASON HILL
VCE CONSERVATION BIOLOGIST
MONTANE ECOSYSTEM

Shedding Light on Invertebrates

The next time you pick your way along a hiking trail in the mountains, keep in mind you are surrounded by wildlife even if you do not see it. The vast majority of these animals—invertebrates such as spiders, slugs, beetles, segmented worms, and ants—will remain hidden from view, even if you seek them out. Along with plants and fungi, invertebrates form the bulk of the macroscopic consumers and decomposers that sustain and drive montane ecosystems.

With funding from the Forest Ecosystem Monitoring Cooperative, VCE hopes to better understand these invisible populations and how climate change may be shifting them to higher elevations and latitudes. Drawing on VCE’s experience sampling arthropods atop Mount Mansfield, we designed an initial monitoring regime to serve as the basis of a regional montane invertebrate community science project in the coming years.

Our primary goal is to document changes in abundance and biomass of invertebrates as climate change advances. The two biggest obstacles to this effort were logistical and methodological. Conducting “manipulative” research in the spruce-fir zone atop Mount Mansfield required extensive permitting and coordination with many people—made that much more protracted by COVID-19. With the help of former ECO AmeriCorps member Pete Kerby-Miller, we settled on a suite of sampling methods for our initial foray that could be scalable to a future region-wide community science effort. We avoided labor-intensive sampling methods, such as hand netting, and impractical for remote locations, such as ultraviolet light traps that required electricity.

In the end, we deployed dozens of modified pitfall traps for ground-dwelling invertebrates and sticky traps for flighted insects. We also performed mustard water extraction for below-ground invertebrates. Throughout the pilot season, we modified methods and redesigned traps as we learned what worked at an exponential pace. Up next: We will sort through samples to determine which invertebrate groups we captured and which ones we missed. This will prepare us for a full-blown field season in 2022 at several dozen Green Mountain locations.

—Jason Hill

On the Hunt for Silkmoth Cocoons

Finding large and beautiful adult giant silkmoths in the summer can be a memorable experience—but it takes real determination to find the well-hidden and camouflaged cocoons in winter. During November and December 2021, community naturalists reported more than 100 silkmoth cocoons—an increase of 2,000 percent from the same time period in 2020—during VCE’s first Giant Silkmoth Cocoon Watch. Like many butterflies and moths, the adults survive just long enough to find a mate and start the next generation. Once eggs hatch, the caterpillars spend a few weeks before they pupate and overwinter in their cocoons.

One highlight of 2021 was the first report of the Columbia Silkmoth (Hyalophora columbia), which was spotted by several community scientists within Vermont’s Northeast Kingdom between June 7 and 12. The state is also home to four other species: Cecropia Moth (Hyalophora cecropia), Promethea Moth (Callosamia promethea), Polyphemus Moth (Antheraea polyphemus), and Luna Moth (Actias luna).

Scientists will use these November and December cocoon observations to better understand the distribution of giant silkmoth populations, which have been in decline for decades across the Northeast.

—Mike Hallworth
**Big Bird Numbers**

From the frigid final Christmas bird counts of the 2020-21 season to the discovery of Razorbills and Northern Gannets along Lake Champlain in November, 2021 was a year full of birding surprises. The 11th annual statewide birding effort—Vermont eBird County Quest—also produced mountains of invaluable data for science and conservation. From tropical hummingbirds to oceanic alcids, Vermont eBirders also turned up some truly spectacular species in 2021, bringing the state list up to 390 species.

Vermont eBird, the first state or provincial portal for eBird, has grown into the largest community science biodiversity project in the state. Since 2003, more than 11,000 Vermont eBirders have submitted more than 500,000 complete checklists, creating an extraordinary open access resource for all. —Nathaniel Sharp

**Bioblitz**

A bioblitz is a community science effort to encourage students, teachers, parents, kids, experts, and amateurs to record as many species within a designated location and time period as possible. They are great ways to learn about the biodiversity around us while generating useful data for science and conservation. “You just never know when you are going to find something cool,” says VCE cofounder Kent McFarland, director of the Vermont Atlas of Life, who reported the first state sighting of the Disk-marked Lady Beetle during a bioblitz in July. “New species are discovered all the time.”
Naturalists Build Biodiversity Big Data

Across the state, iNaturalists added more than 201,000 biodiversity records to our rapidly growing Vermont Atlas of Life database. Between a Barred Owl celebrating the New Year at 1:31 a.m. to an overwintering Eastern Boxelder Bug observed on the last day of 2021, amazing observations kept coming all year long. More than 7,750 community scientists added 201,112 observations—a 12-percent increase from 2020—representing 4,516 species. In addition, more than 3,600 naturalists and experts helped to identify and verify these data.

The vast data gathered in the past year tell us what lives where and how common or rare things are—and provide the very foundation for science-driven conservation. Even as our community members continue to build upon what we know about biodiversity in Vermont, these “occurrence records” are just the start of the work to put the data to use for conservation. Analysis can help us detect trends, shape the scientific questions we pursue in further study, and understand what drives changes in species distributions and abundance. For the first time, the Vermont Atlas of Life database—some 7 million records—is undergoing a sophisticated analysis by VCE data scientist Mike Hallworth. His work will provide guidance for the science and conservation community to prioritize conservation action and help us understand how Vermont’s biodiversity is adapting (or not) to climate change and other drivers. He is looking at the dataset as a whole and subjecting it to several prominent climate change models, with plans to release a report in 2022.

This year provided a wealth of information, as naturalists added more than 500 new species to the database for Vermont, including many new discoveries for the state and five insect species that were completely new to the entire iNaturalist platform. First, the bad news: The invasive Spotted Lanternfly was captured on a shipment delivered in Rutland; a second, dead, specimen was found on a sidewalk in downtown White River Junction. No other evidence of the insect has yet been found in Vermont.

There were plenty of other discoveries that elated naturalists. In July, while sweep netting in Underhill with a group of bioblitzers, we captured a small, black beetle with elongated spots. After hours poring over a key and uploading images into iNaturalist, we had an identification: the relatively rare Disk-marked Lady Beetle. In another Vermont first, ardent eButterfly watcher Terri Armata recorded the first observation of a Cloudless Sulphur in Shaftsbury.

The Vermont Wild Bee Survey continues to amass an extensive database—more than 50,000 bee records and more than 50 new species for the state—since it was started two years ago. It takes a village to discover bees, as a June 17 discovery proves. Jacob Penner, a botanist by training, posted images on the Vermont Atlas of Life on iNaturalist of tiny bees he found in Colchester. Spencer Hardy, VCE’s lead biologist for the bee survey, saw the report, recognized the genus, and suspected that it was the rare Least Cellophane-cuckoo Bee. He alerted two bee identification experts, and a day later Canadian Museum of Nature research associate Thomas Onufko confirmed the sighting.

Looking ahead, the millions of biodiversity records on the Vermont Atlas of Life are a living legacy for Vermonters. We invite you to join the naturalists from around the Green Mountain State who are helping to monitor Vermont life at val.vtecostudies.org.

—Kent McFarland
More than 800 Eastern Meadowlark observations were logged in Vermont during 2021.

**Meadowlark Observations**

Thanks to the tremendous efforts of more than 175 community scientists across the state, more than 800 observations of Eastern Meadowlark were entered into eBird in 2021. This year also marked a sevenfold increase in the number of observations recorded with a breeding code—providing invaluable data on nesting activity. These observations spanned the May-July breeding season, providing key data on which sites remained occupied. As expected, the Champlain Valley remains Vermont’s stronghold for meadowlarks, with Bennington also hosting a sizable population. However, meadowlarks were few and far between outside these two areas. Surveyors did document two notable sites outside the state’s western regions—one each in Richford and Danville—that weren’t previously known. Unfortunately, the 2021 Birder Blitz results appear to confirm the species’ continuing, significant statewide decline. With the species’ imminent listing as “threatened” in Vermont, we will use these data to target conservation of Vermont’s remaining meadowlarks and seek opportunities to reverse the current population trend.

—Kevin Tolan

**ENGAGEMENT**

**Community Science Opportunities**

**Mountain Birdwatch**
Each June, volunteers hit the trails to complete bird survey routes on 123 mountain ridgelines across the Northeast.

**LoonWatch**
On the third Saturday in July, volunteers conduct a census of breeding loons across 160 lakes and ponds in Vermont. Monitoring throughout the summer is optional.

**Forest Bird Monitoring**
Each June, volunteers monitor breeding birds on 31 sites across Vermont in one of the continent’s longest-running studies of forest bird population trends.

**Vernal Pool Monitoring**
In April, May, and September each year, volunteers visit and collect data to monitor “adopted” vernal pools following protocols and using VCE-provided equipment.
Lady Beetles Spotted

Since the start of the Vermont Lady Beetle Atlas in 2019, five species have been rediscovered and one new species has been found. VCE’s outreach and education to community naturalists have also fostered a great increase in the number of observers and verified records in Vermont on iNaturalist. Prior to 2019, a total of 435 research-grade lady beetle observations were uploaded; this year, 1,382 new research-grade observations were added to iNaturalist. Highlights for 2021 include the first-ever discovery of the Disk-marked Lady Beetle (Hyperaspis disconotata) and the rediscovery of the Ten-spotted Spurleg Lady Beetle (Brachiacantha decempustulata) and Hudsonian Ladybird (Mulsantina hudsonica).

—Julia Pupko

CROWD-SOURCED COMMUNITY SCIENCE TOOLS

Volunteers report sightings and share observations of Vermont biodiversity through these digital efforts.

eBird

Wild Bee Survey

iNaturalist Vermont

Hudsonian Ladybird

Whip-poor-will Project

On clear, moonlit nights in early summer, volunteers travel on 17 roadside survey routes to listen for Eastern Whip-poor-wills and record surrounding conditions.

Giant Silkmoth Cocoon Watch

During the month of November, volunteers find and photograph cocoons hanging in bushes and trees—then return in the spring to document what emerges.

Moth Blitz

During National Moth Week in July, volunteers leave the porch light on—or use special lights and baits—and help map moth species distribution in Vermont.

Lady Beetle Atlas

In early June and August, volunteers keep an eye out for the state’s 36 native species, including the four “most wanted”: Nine-spotted, Two-spotted, Transverse, and Thirteen-spotted.

2021

BY THE NUMBERS

COMMUNITY SCIENCE PROJECT VOLUNTEERS

350

LOON CONSERVATION PROJECT

95

VERMONT WILD BEE GUIDE IS AN ONLINE GUIDE TO HELP NATURALISTS IDENTIFY BEES FROM PHOTOGRAPHS.

BUMBLE BEES OF NEW ENGLAND IS A TWO-PAGE, PRINTABLE PDF THAT CAN BE BROUGHT INTO THE FIELD.

VERMONT WILD BEE SURVEY

28

BIRDER BROKER

23

LADY BEETLE ATLAS

20

WHIP-POOR-WILL PROJECT

360

15
In 2021, VCE began a multiyear collaboration with Missisquoi National Wildlife Refuge to document bee fauna.
Exploring Bee Fauna

In 2021, VCE began a multiyear collaboration with Missisquoi National Wildlife Refuge, a 7,000-acre refuge along the eastern shore of Lake Champlain, on VCE’s Wild Bee Survey. The project will document the bee fauna of the refuge and provide recommendations for future management of important habitats. In the first summer of surveys, several new species for Vermont were recorded on the refuge as well as a number of specialist bee species with specific floral needs. Our second season of fieldwork will focus on identifying critical features of the refuge that support these rare species, so refuge managers are better able to factor native bees into management plans for their unique wetlands and extensive grasslands.

—Spencer Hardy

Loons By the Numbers

A five-year, $446,393 grant from the U.S. Fish & Wildlife Service will support the Vermont Loon Conservation Project (VLCP), a joint program between VCE and the Vermont Fish and Wildlife Department.

The grant is part of a settlement from the 2003 Bouchard B-120 oil spill that killed more than 500 wintering loons off the Rhode Island and Massachusetts coasts. “These funds were awarded to effectively replace the future loons lost in that spill, as well as their offspring,” explains VCE loon biologist Eric Hanson.

Thanks to VLCP and other community partners, Vermont’s Common Loon story is largely one of success. In 1987, only 12 breeding pairs were recorded in the state and the bird was added to the endangered species list. By 2005, VLCP’s combination of monitoring, targeted management activities, community involvement, and public outreach had helped the loons recover enough to be delisted. This year, a record 109 breeding pairs nested in Vermont.

With the grant funds, VCE will focus established management activities—such as nest warning signs and nesting rafts—on particularly vulnerable areas. “These include both territories with low productivity and high-risk sites where we have found management highly effective in reducing the negative effects of flooding and human disturbance,” says Hanson. VCE will also use the funds to improve rescue and rehabilitation of distressed or injured loons, as well as implement lead tackle buy-back and monofilament collection programs within Vermont.
Conserving Cloud Forests

Grupo Jaragua, VCE’s longtime conservation partner in the Dominican Republic, took additional measures toward the protection and restoration of cloud forests in Sierra de Bahoruco National Park in 2021. Using a suite of native tree species sourced from forests adjacent to the restoration sites, Grupo Jaragua began several planting efforts to shade out existing non-native understory species and eventually develop suitable habitats for many migratory and resident bird species. Initial reports on these efforts are encouraging, and success at these sites may lead to more restoration opportunities in other parcels with similar land-use histories. Additionally, Grupo Jaragua has identified candidate sites for acquisition that, if successfully purchased, will help connect two parcels acquired in 2020. Lastly, Grupo helped deploy audio recorders at strategic locations in the Dominican Republic to complement an existing Bicknell’s Thrush GPS tagging study focused on the species’ overwinter movements. —Ryan Rebozo

Science to Policy

VCE provides the critical data and information the public and policymakers need to make informed conservation decisions. In late 2021, to further improve how we share our science to inform on-the-ground management and policy decisions, VCE initiated a “Science to Policy” working group. This network of policy partners—including the Gund Institute, Audubon Vermont, Vermont Natural Resources Council, and Vermont Conservation Voters—will help VCE shape research priorities that reflect conservation policy needs and address the mutual interests of partners. In the coming year, the Science to Policy working group aims to bolster stakeholder engagement, develop decision-making tools, and define policy initiatives.

“We are working to improve how we share our science to inform on-the-ground management and policy decisions in Vermont.” —Ryan Rebozo

 Grupo Jaragua Executive Director Yolanda León, VCE Executive Director Chris Rimmer, Egido Sanz, and Jim Goetz inspect a restoration site in Sierra de Bahoruco National Park.

Chris Rimmer and Holdali Almonte, ornithologist at the Museo National de Historia Natural in the Dominican Republic, examine a Bicknell’s Thrush captured by a mist net in Reserva Zorzal.
New Mapping Tool for Vermont’s Vernal Pools

Mapping the location of vernal pools is the first step in conserving these ecologically valuable wetlands. Although VCE researchers have successfully mapped thousands of “potential” pools using remote mapping methods, these methods fail to detect thousands more due to their small size and ephemeral hydrology. The solution: a community science approach to locating pools with the Vermont Vernal Pool Atlas (VPAtlas).

Created with funding from the Vermont Fish & Wildlife Department, VPAtlas is a statewide repository of vernal pool data. This online, interactive database and mapping tool makes it easy for anyone to search the map for pool locations and register to become a VPAtlas user. Once registered, VPAtlas users can add pool data, including “new” pools that have not been previously mapped, as well as “visits” to previously mapped pools.

With more than 100 registered users, VPAtlas received nearly 200 data submissions in 2021, mostly for locations of previously unmapped pools. Start exploring at vpatlas.org. —Steve Faccio
Birder Broker uses Vermont eBird to connect landowners interested in learning more about birds breeding on their property with experienced birders looking for new places to explore. More than 80 percent of forested land in Vermont is privately owned, and this program provides a glimpse into often unexplored habitat. Working together, landowners, birders, and VCE gain a greater understanding about breeding bird populations, which will inform conservation efforts across the state. During the 2021 breeding season, 20 birders visited 23 private properties across seven different Vermont counties and submitted 53 complete checklists to Vermont eBird. During these Birder Broker visits, landowners and birders walked a set loop around the property and documented breeding evidence of birds through the use of breeding codes on their Vermont eBird checklists. A total of 100 different species were reported on Birder Broker checklists this season, and the vast majority—94 species—were labeled with breeding codes. The checklist and species totals of the 2021 season represent increases from the 2019 kickoff Birder Broker season totals of 42 checklists and 92 species. Join the effort at val.vtecostudies.org/projects/birder-broker.

---

OUTREACH

Bee Guides

With a grant from University of Vermont’s Apis Fund, VCE has launched an online guide to all of Vermont’s almost 350 bee species. Designed to be broadly accessible, the species pages are loaded with identification information tailored to recreational naturalists, plus novel natural history and distribution information for bee researchers throughout the region. And VCE has developed multiple resources—including a downloadable two-page field guide designed by ECO AmeriCorps member Abigail Castriotta—to help users identify the more well-known and charismatic bumble bees. Learn more about the bees you find at val.vtecostudies.org/projects/vbees/bombus. —Spencer Hardy
Suds & Science

Started as a discussion series with visiting scientists at a Vermont brewpub, Suds & Science went virtual when COVID-19 hit. VCE biologist Jason Hill hosts the one-hour programs via Zoom and in 2021 took advantage of the virtual opportunity to connect experts from further away with fans of science. He interviews scientists about the intersection of their lives and their research—often incorporating questions from the audience in the community conversation. VCE’s 2021 lineup included discussions on the competitive and cooperative actions of alpine plant communities in the White Mountains, insect conservation in a warming world, details on how urban heat waves impact human environmental health, and strategies for conserving rare beach and bog plant communities. Find videos of events and learn how to register for the next lively conversation at vtecostudies.org/suds-and-science.

eNews

Every month, VCE’s electronic newsletter, eNews, brings the outdoors to your email inbox. We report on the innovative field work of VCE biologists and breaking news from the frontiers of conservation biology—here in Vermont and beyond. eNews is short and designed to inspire you to explore the natural world. Subscribe at vtecostudies.org/subscribe or find past issues at vtecostudies.org/enews.

Lunchtime Learning

Grab a sandwich for the weekly webinar with ECO AmeriCorps member Julia Pupko, VCE’s community outreach naturalist. From noon to 1 p.m. on Wednesdays, she delivers a menu of iNaturalist tips through the lens of a seasonally relevant Vermont natural history topic. Sign up for the series and find previous webinars at vimeo.com/showcase/7718869.

Field Notes

Field Notes, our annual spring and autumn news magazine, offers in-depth explanations of the field work, science, and conservation efforts of VCE biologists and our community scientists. Learn about what we’ve been doing and how you can join us to study and conserve wildlife. Find past issues online at vtecostudies.org/field-notes.
**STATEMENT OF FINANCIAL POSITION**

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>AS OF 12/31/21</th>
<th>AS OF 12/31/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT ASSETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CASH</td>
<td>$1,019,812</td>
<td>$1,072,561</td>
</tr>
<tr>
<td>CONTRIBUTION RECEIVABLES</td>
<td>56,355</td>
<td>33,781</td>
</tr>
<tr>
<td>GRANT RECEIVABLES</td>
<td>178,290</td>
<td>52,202</td>
</tr>
<tr>
<td>PREPAID EXPENSES</td>
<td>25,756</td>
<td>16,529</td>
</tr>
<tr>
<td>CURRENT PORTION PLEDGES RECEIVABLE</td>
<td>202,000</td>
<td>29,540</td>
</tr>
<tr>
<td>TOTAL CURRENT ASSETS</td>
<td>1,482,213</td>
<td>1,204,613</td>
</tr>
<tr>
<td>INVESTMENTS</td>
<td>2,791,325</td>
<td>527,487</td>
</tr>
<tr>
<td>EQUIPMENT, VEHICLE, WEB, NET</td>
<td>45,719</td>
<td>28,100</td>
</tr>
<tr>
<td>PLEDGES RECEIVABLE, LESS CURRENT PORTION SHOWN ABOVE</td>
<td>373,563</td>
<td>9,715</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>$4,692,819</td>
<td>$1,769,915</td>
</tr>
</tbody>
</table>

**LIABILITIES AND NET ASSETS**

| LIABILITIES | | |
| CURRENT LIABILITIES | | |
| ACCOUNTS PAYABLE | 63,237 | 34,982 |
| ACCRUED PAYROLL & RELATED TAXES | 129,029 | 110,215 |
| DEFERRED REVENUE | 607 | 604 |
| CURRENT PORTION OF CAPITAL LEASE OBLIGATION | 1,181 | 1,347 |
| TOTAL CURRENT LIABILITIES | 194,052 | 147,148 |
| CAPITAL LEASE OBLIGATION, LESS CURRENT PORTION | | 1,072 |
| TOTAL LIABILITIES | $194,052 | $148,220 |

| NET ASSETS | | |
| WITHOUT DONOR RESTRICTIONS | 3,553,786 | 1,221,782 |
| WITH DONOR RESTRICTIONS-TIME OR PURPOSE | 944,981 | 399,913 |
| TOTAL NET ASSETS | $4,498,766 | $1,621,695 |
| TOTAL LIABILITIES & NET ASSETS | $4,692,819 | $1,769,915 |

**STATEMENT OF ACTIVITIES**

| 2021 REVENUE | | |
| PUBLIC AGENCIES | $231,170 | |
| ORGANIZATIONS/FOUNDATIONS | 369,016 | |
| INDIVIDUALS | 753,962 | |
| CAMPAIGN | 3,108,286 | |
| PROGRAM FEES | 3,149 | |
| OTHER | 334 | |
| TOTAL REVENUE | $4,465,917 | |

| 2021 EXPENSES | | |
| SCIENCE & CONSERVATION | $1,117,292 | |
| MANAGEMENT | 186,780 | |
| FUNDRAISING | 284,773 | |
| TOTAL EXPENSES | $1,588,845 | |

**VISONARIES**
- $25,000+
  - Anonymous (6)
  - Richard Bowe and Karen Nemeth Fund at Fidelity Charitable
  - John F. Brooke
  - Peter W. and Ruth H. Brooke
  - Peter W. and Ruth H. Brooke Fund at the Boston Foundation
  - The Jack and Dorothy Byrne Foundation
  - Brian and Erika Dade
  - Will and Laurie Danforth Fund at the Vermont Community Foundation
  - The Sarah K. de Coizart Article Tenth Perpetual Charitable Trust
  - Birgit Deeds
  - Eugene Bicknell Doggett and Nina Lord Doggett
  - Emily Landecker Foundation Inc.
  - Annette Gonsell
  - Gale Hurd
  - Carolyn B. Jackson
  - Jared and Songmei Keyes
  - Dr. Martha McDaniel and Dr. Stephen Plume
  - Gary and Nancy Meffe
  - Samuel and Missy Palmasino
  - David Roby
  - The Ruml Leithner Family Fund
  - Ruth Stewart
  - Telaka Foundation
  - The Edwin S. Webster Foundation
  - Stan and Jenny Williams Family Fund of the New Hampshire Charitable Foundation
  - Carter and Lisa Winstanley
  - William C. and Joanna M. Wright

**LEADERS**
- $10,000 to $24,999
  - The Bobolink Foundation
  - Concrete Giving Fund at Fidelity Charitable
  - The John Dawson Vermont Fund at the Vermont Community Foundation
  - The Betsy and Jesse Fink Family Foundation
  - Susan Gillotti
  - Warren and Barry King
  - Lintilhac Foundation
  - Lorna Change Post
  - Clare C. Rimmer
  - The Jennie Savage Fund at Silicon Valley Community Foundation
  - The Wildwood Foundation

**GUARDIANS**
- $5,000 to $9,999
  - Anonymous (4)
  - Dr. Celia Chen
  - George Clark
  - Stephen Whitney Dickey Jr.
  - Mary and Stephen Gorman Donor Advised Fund (A Fund of American Endowment Foundation)
  - Donald Graham and Carol Barr
  - Drs. Karen and Peter Hanson
  - Peter and Claudia Kinder Fund of the Vermont Community Foundation
  - Sally Leighton Revocable Trust

* Bicknell’s Legacy Society
“Your work inspires much-needed hope in a complex and interconnected world.”

—KATHY ROOSA

Andrew and Tish Rimmer
JoAnne Russo and Gerry Biron
Molly P. Scheu
Barrie and Al Schultheis
Eric Seyferth
Settenheim Foundation
Betsy T. Stevens
Suz Stiller
David and Patricia Straus
Joanna Sturm
T. and P. Thompson Fund at TIAA Charitable
Carolyn Tager
Frederic Taylor
Town of Greensboro, Vermont
Steve Trombula
Tuck Sustains
Marianne and Michael Walsh*
Howie and Sue Wensy
Woodstock Gift Fund at Fidelity Charitable
Connie and Mark Youngstrom
Barb Zander and Dennis Casey

SUPPORTERS
$100 to $499
Anonymous (12)
Peg Ackerson
Joan Aleshire
AmazonSmile Foundation
Nancy Anderson
Terry Anderson
Theresa A. Armata
Cheryl Asa
Averill Lakes Association
Jim and Betsy Bahrentburg
David Bailey
Charles and Diana Bain
Marcia Baker
James Barry and Mary Quinton-Barry
Linda Barry
Christine A. Bartlett
Elizabeth Bassett and John Paine
Katie and Bob Bateson Bemelev Community Impact Fund
Paul R. Bengston
Dale and Jeri Bergdahl
Berger Family Fund at the New Hampshire Charitable Foundation
Jack Beusmans
Nicholas Biddle
Louis Biglino S. and Anne Krementz
Charlotte and Hal Bill
Tom Bjorkman
Cindy and John Blackburn
Jigg's Blackburn and Judy Lam*
Marilyn Blight
Clay Block and Virginia Brack
Jinx Bloom
Michael Blust
Roxanne Bogard and Scott Schwenk
Larry and Marsha Booker
Margot Borden
Ruth and Bill Botzow
Mattie Boule
Matthew Bourgault
Karen Bowles
Natalie Elizabeth Boze and Becky Cooke
Nancy Brennan

PROTECTORS
$1,000 to $4,999
Anonymous (11)
Charles and Jill Agnew
Mimi Baird
David Baldwin Jr.
Birds & Beans LLC
Jann and Jim Block
Charles E. & Edna T. Brundage Charitable Science & Wildlife Conservation Foundation
Barbara Butler
Carolyne Foundation
William Chester
Nancy Cochran and Elliott Fisher
Gerrit Crosby
Charles Dickey and Sheila Wyckoff-Dickey
Whit and Closey Dickey Fund at New Hampshire Charitable Foundation*
John and Lucy Douglas
Philip and Deborah Edmundson Fund at Fidelity Charitable
Alexander Ellis III
John and Margot Ernst
Henry Fair Family Fund for the Environment of Coastal Community Foundation of SC
Karen Fiebig*
Jim and Susan Ford
Gade McCadle LLC
Jonathan Gibson and Eliza Mabry
Gillette Hill Fund at Fidelity Charitable
Donna Goldberg
David and Nancy Grant
Phil Gray
Great River Hydro
Sandy and Edward Hack*
Norm and Jane Hanson
Bill and Roseann Hayes
Robert and Lisa Holley
Donna Hollinger
Mollie and Tom Hoopes
The Robert K. and A. Joyce Jones Foundation Inc.
Sarah Jones
Barbara M. Jordan
Janice Jorgensen
Gregory Kaufman and Ellen Seidman
Robin and David Key
Jonathan Keyes
Steve Leach and Kathy Kirkland
LOTS Family Fund at Vanguard Charitable
Stephanie and Philip McCaul
Winfred McDowell and John Follett Bill Mercia
New Hampshire Charitable Foundation Wellborn Ecology Fund
Norwich Women’s Club
The Oakland Foundation

Oaks and Acorns Fund at Vermont Community Foundation
Gail Osherenko and Oran Young
Darlene and Ernest Pallo
Paris Family Gifting Fund at Advisors Charitable Gift Fund
Roger F. Pasquier
Judy Peterson
Nicki Pfister
The Pitchfork Fund at Vanguard Charitable
The Estate of Lorna Chang Post
Renfro-Pihut Family
The Estate of Ted Richards
The Grace Jones Richardson Trust
Chris and Leslie Rimmer*
Brent R. Rohloff and Lorna J.
Kane-Rohloff
Tina Scharf
Nicholas Skinner
Mike and Jean Smith
Stone House Farm Fund of the New Hampshire Charitable Foundation
The TAG Philanthropic Foundation
Taylor Family Fund at Fidelity Charitable
Georgina Terry
Thomas Sargent and Allison Ijams Charitable Foundation
Tom and Charity Tremblay
Kathy and George Van Der Aue
Jon Voightman
William C. and Joanna M. Wright Fund at Fidelity Charitable
Gail S. Yanowitch Account at Raymond James Charitable Endowment Fund

CONSERVERS
$500 to $999
Anonymous (3)
Clay and Liz Adams
Lee Allen
Lee and Carmen Anderson
Awesome Possum Fund at New Hampshire Charitable Foundation
Thomas C. Barber
Mary Jane Boland and Daniel Picard
David and Barbara Capen
Margaret Cheney and Peter Welch
Concep2 Inc.
Judy Davis
Ann B. Day*
Randy Dettmers
Basil Dobbin and Jena Wood
Charitable Fund at Vanguard Charitable
Penelope Doherthy
Ruth Einstein and Bryan Pfeiffer
Don and Mary Faulkner
Feiss West Fund at Fidelity Charitable
Friends of Walcott Pond
Carolyn and Milton Frye
Barbara Ganley
Ann Gormley and Richard Wallace
David Goudy and Susan Gallagher
Alan and Kris Graham
Susan and Dean Greenberg
Growald Climate Fund
Hazel Fund at the Vermont Community Foundation
Vic Henningsen
Josler Family Fund at Fidelity Charitable
Susan and Todd Hindlinger
Peter Isakson and Helen Hamman
Bruce and Anne James
Helen Johnson
Peter and Claudia Kinder
Landsberg Marshak Fund at Fidelity Charitable
Sally Laughlin*
Ledyard National Bank
Tita and Oliver Manice
John B. Marsh and Carolyn B. Marsh
Gail and Mark McPeek
Holly Nash Wolff
Grace Nelson
Patricia Holladay Giving Trust at Morgan Stanley Charitable Foundation
Patterson Family Fund at New Hampshire Charitable Foundation
Noreen G. Peck
Charles and Elizabeth Phillips
Ann and Tip Ray
Ned and Cathie Redpath

The Nashawtuc Charitable Fund at Schwab Charitable
Nancy Osgood
Roosting Raven Fund at Vermont Community Foundation
Li Shen
The Tow Foundation
Wendling Fund of Berkshire Taconic Community Foundation
Donors

Harold and Ramona Brewer
Charitable Fund
Margaret Briggs
Katharine Britton
Richard L. Brooks
Barbara Brosnan and John Chamberlain
Jim and Judy Brown
Kevin and Lucinda Brown
Stephen Brown and Metta McGarvey
Charlouise and John Browne
Chess Brownell
Susan and Larry Bruce
Douglas and Mary Burnham
Stephen Burtchell
Shepard Butler
Amanda Cannell-Boone
Patricia Capra
CarComplaints.com
Simon Carr and Linda Adams
Josette and Steve Carter
Casey Villard Fund at Fidelity Charitable
Cashdan/Stein Great Grandmother Fund at the Vermont Community Foundation
Anne and Mike Cassidy
Deb and John Carlo
Richard Cech
Rich and Ann Chalmers
Gretchen Cherington and Michael O’Leary
Robert Clark
Brenda Clarkson
Alan Cody
Micki Colbeck
Commonwealth Charitable Fund at Renaissance Charitable Foundation Inc.
Jean A. Condon
Sarah Cooper-Ellis
Laurel Copeland
Catherine L. Copp
James Corven
Bill and Ginger Cotten
Cynthia Crawford
Frederick and Sophia Crawford
Ruth Crawford
Tina Harrick Culver
Anne Cummings
Ann and Fred Curran
Timothy Curtis
Milford Cushman and Terri Gregory
Andy and Judy Dales
Scott and Beverly Darling
Chip and Alisa Darmstadt
Polly Darnell
Charles and Ann Davis
Elizabeth Davis
Marilyse de Boissazan
Jennifer and Jon Dembinski
Dr. John and Katherine Dick
Matthew and Monica DiMaggio
Annie Dolan-Niles
Katherine C. Donahue
Derek and Anne Drummond
Kathleen Duclos
Kathryn Dunn
Judith Dunnan
Louis Dupont and Ellen Spring

David Eberly
Lois Eby
Betsy Eccles
Echo Lake Protective Association
John Echterbach and Judith Englebardt
Norman and Jo-Ann Ecker
Christopher Eggers
Gordon and Joni Elicker
Marvin and Susan Elliott
Peg Elmer Hough
Wallace Elton
Ben Emory
The Engels Family Fund at Fidelity Charitable
Sabina Ernst
Gilda Faccio
Mollie and Henry Fair
Peter and Ellen Fallon
Family Gift Fund at Fidelity Charitable
Dr. Brian Farrell
Marc and Peggy Faucher
Jim and Cindy Faughnan
Martha Faulkner
Sarah Fellows
Ethan Fenn
Jeffrey and Nancie Fernandez
Cynthia L. Field
Ken Finch
Anne Fines
Brendan Fisher
Lionel and Ardyss Fisher
Michael and Sandra Fisher
Brian Fitzgerald
Lynne Fitzhugh
Polly Foley
Pat Folsom
Dr. Michael A. Foster, DDS
C.J. Frankiewicz*
Victoria Fraser
Conrad and Lea Frey
Friend
Veer-Tess Frost
Marjory R. Fuller

Kalanani Gallais
Jennifer Garber
Arthur Gardiner
Marty & Cathy Gardner Fund at Schwab Charitable
Linda Garrett and Jon Binhammer
Paul Garrique and Susan Van Kleek
Ray Geddes and Lori Johnson
Keith and Laurie Gee
Jonathan and Molly Gentine
Aliena Gerhard
Barbara D. Gerstner*
Barbara Gibbs
Gibson Family Fund at Fidelity Charitable
Seth Gibson
George Giffen
Ed and Sue Gilbert
Cathy and Lou Gilbert
Laura Gillespie
Paula A. Gilman
Linda Giontis
Louise Giovanella
Michale Glennon
Mackenzie Goldthwait and Douglas Kibbe
Alice Goodwin
Billi Gosh
Michael Goudzwaard
Gordon and Patricia Gould
Wayne and Deborah Granquist
Clive Gray
Janet C. Green
Jeffrey B. Green
Mark L. Greenberg
Bob and Suzanne Griffiths
Shirley K. Griggs
Dean Grover
Paul Gruhler
Richard and Marcia Haas
Steve and Sunita Halasz
James and Cynthia Hall
The Handler Kaminsky Charitable Fund at Fidelity Charitable

Anne and Eric Hanson
Hapke Family Charitable Gift Fund at Fidelity Charitable
Doug and Janet Hardy
Brian A. Harrington Fund at the T. Rowe Price Program for Charitable Giving
Catherine Harris
Mari Harter
Nicholas and Constance Harvey
Thomas Hasson
Larry Haught
Haynes & Garthwaite Architects
Patti Haynes
Daisy Hebb
Hebble Giving Account at Fidelity Charitable
George and Jill Helmer
Robert and Kathleen Hendel
Ann Hicks
Richard and Michelle Hicks
David Higginson
Libby Hillhouse
Sara Hills
David Hoag
Judith Hobbs
Dr. Richard Holmes
Kit and Allen Hood
Robert W. Hoppe
Susan Houston
Becky Howe
Brucie Hubbell
Susan James
Theodore and Kathy Jastrzembski
Rita and Win Johnson
Peter A. Johnson
Bob and Shirley Johnson
William Johnston and Cathleen Morrow
Amber Jones
Kyle Jones
Hank Kastner
Ken and Karen Kaliski
Robert and Sue Kancri
Rachel Kane
Karla Hurst Karash Fund at Fidelity Charitable
Kerul Kassel
Kim Kendall and James B. Shanley
Rusty Kent and Deb Birenbaum
Sherman and Laura Kent
Dr. Henry Keutmann and Dr. Ilene Gipson
Christopher Kibbe
Angus King III
The Klogue-Rosenmeier Fund at Renaissance Charitable
Frank and Alicia Knoll
Dr. Mark Knott
Kathleen and William Kruesi
The Krus-Harris Family Fund at the Vermont Community Foundation
Ken and Renee Kudrak
Kim Kurak
Marilyn B. Lagrow
Lake Eden Association
Lake Fairlee Association
Lake Harvey Association
Lake Raponda Association Inc.
Daniel Lambert
Ron and Linnea LaPerle

“So much to be proud of in this state, but I’d place the knowledge base and the sheer dedication of VCE scientists and staff to showing us the glory within the borders of Vermont in the top tier.”
—VEER-TESS FROST
Bicknell’s Legacy Society

VCE’s legacy giving program includes those who have designated a planned gift to VCE. Such gifts include bequests, beneficiary designations for life insurance policies or retirement funds, planned gifts of real estate, and life-income gifts such as annuities. VCE staff can help facilitate these choices and provide guidance as needed. Although the types and scales of their planned gifts vary greatly, these donors share an abiding commitment to ensuring that VCE’s wildlife conservation work will continue long into the future.

Anonymous (7)
Drs. Elizabeth Moen Alton and Raymond D. Barnes
Jeffrey S. Bendis
Peter W. and Ruth H. Brooke
George Clark
Ann B. Day
Colin Darcy and Carol Radic
Whit and Closey Dickey Fund of the New Hampshire Charitable Foundation
The Estate of Robert E. Engel
Abbott T. Fenn Trust
Karen Fiebig
C.J. Frankiewicz
Anna Gerretson
Barbara D. Gerstner

Al and Susan Gillotti
Paula A. Gills
Annette Gosnell
Lynda Graham-Barber and David Hunter
Edward Hack
Linda Huebner
The Estate of David S. Hume Jr.
Jared and Songmee Keyes
Karen Kluge
Judy Lam and Jiggs Blackburn
Sally Laughlin
Dan and Jaye Lindner
Gordon MacFarland
Gary and Nancy Meffe
Jennifer Megyesi
Charlotte S. Metcalf

Julie Nicholson
Patricia Nye Trust
Roy W. Pilcher
Lorna Chang Post
Joan Randall
Charles Jr. and Clare C. Rimmer
Chris and Leslie Rimmer
Elizabeth Rumil
Carla Skinder
Jen Stamp and Thomas Anderson
Peter and Mary Stangel
The Estate of Richard B. Stevens
Ruth Stewart
Marianne and Michael Walsh
Mary and Bernie Waugh

Marie Onderdonk
Elinor Osborn
Barbara Otsuka
Ann Owen
Gill Page
Worth Parker and Mary Margaret Andrews
Jan Parsons
Matt Peake and Leslie Goldman
Mark S. Pecker and Elizabeth A. McGee
Dr. Robert Perrin and Jane Perrin
Dave and Ellie Peters
Amy and Don Peterson
Susan Peterson
Thomas Peterson
Chris and Nissa Petrok
Karl Pfeiffer
Jane and John Phipps
Ann Pibal and Colin Brant
Roy W. Pilcher*
Carol Pinney
Jim and Faith Pivottot
Kay and Kevin Plunket
Mike and Barbara Powers
Paul Prappas and Carollee Colter
Frederick Pratt
Laura and Phil Prothero
Lisa and Van Purcell
Hugh Putnam
Quebec Labrador Foundation
Carol and George Ramsayer
Joan Randall*
Sharon Randall
John Rathjen
Jeanne and Jon Raymond
Ryan Rebozo
Barbara Reed
Dave and Sarah Reeves
Cordelia Reimers
Susan and Martin Reiter
Rosalind Renfrew
Virginia Renfrew

Craig Repasz
Rhode Charitable Trust at Fidelity Charitable
Charles and Jeanne Richards
Catherine Richmond and David McCullough
Ben Rimmer and Maggie Pratt
Dave and Mary Rimmer
Harry Roberts and Elizabeth Howard
Frank Robey
Pat Robins and Lisa Schamburg
Anita Rogerson
Linda Romans
Ken and Anne Rosenberg
Jan Roy and Steven Young
Mr and. Mrs. James W. Runcie
Carl and Deb Runge
Rutland County Audubon Society
Christina Ryan
Sara Jean Sangdahl
David and Ann Sargent
Michael Sargent
Helen and Guerrino Savio
James Sawyer
William B. Scarborough Jr.
Jonathan Schechtman and Karin Davenport
Nick Scheu
Mark and Jennifer Schiffman
Debbie Schoch
Taj Schottland
Lisa Schukey
William Schults and Elizabeth Maisen
Andrew Schulz
David Scott
Rebecca Scott
Jennifer and Jerry Senturia
Settel-Kline Family Fund at Fidelity Charitable
Kim Seward
Gregory and Nina Sharp
Kent Shaw and Jean O’Connor

Tracy and Victor Sherbrook
Shrewsbury Outing Club
Peter and Anne Silberfarb
Dr. Scott Sillett
Peter and Jacqueline Sinclair
Barrett Singer
Carla Skinder*
Margaret and Richard Slosberg
Dale Smeltzer
David and Wilhelmina Smith
Nat Smith
Oakley Smith
Scott Snead
Harold and Jean Somerset
Eric Sorensen and Cathy Khashanski
Arnold and Priscilla Spahn
Stephanie Spencer
Gus and Cameran Speith
Cindy Sprague and Jim Converse
Jon and Cindy Stableford
John and Noni Stadler Fund at Schwab Charitable
Jen Stantj and Tom Anderson*
Peter and Mary Stangel*
Gary and Kathleen Starr
Nancy and Jim Stead
Nicki Steel
John Stein
Kathie Stone
Allan Strong and Lisa Nawrocki
Skip and Marilyn Sturman
Robert H. Stymeist
Susan Sussman and Scudder Parker
Marni Swanson and Tory Rhoden
Gary and Paul Sweterlitsch
Erin Talmage
David and Sue Taylor
Stephanie Taylor
Tim and Janet Taylor
Rollin S. Tebbetts
Mary Jo Teeter
Nancy Tephan
Cho and Sandy Teng
Robert and Mary Gold
Gold/McConnel Charitable Giving
Account at Fidelity Charitable
Michael and Rebecca Gonyaw
Mark and Carol Goodwin
Hannah T. Gordon
Pat Gorman and Ronda Bohovich
Andrea Gould and Charlie Barasch
Roberta Gowing
Jim Graves and Kathy Doyle
Erica Green
Green Mountain Audubon Society
Greenfield Highland Beef
Greenwood Lake Association
Georgene Grover
Taylore Grymonet
Mark and Susan Guilmont
Dr. Thomas Guiteau
The Haddock Family
Steve Hagenbuch and Dana Hudson
Sheila Halpin
Barbara Hamilton
Jim and Marilyn Hand
Julie Hand
Greg Hanisek
Patricia Hanson
Joan Harlowe
Mary Harry
Sylvia Hartmann
David Hathaway and Carolyn Greene
Elizabeth Hazlett
Laurie Heijn
Don Heise
Meg Hendrick
Jo Ann Hendricks
Veronica Heron
Patricia Herron
Lyne Higbie
Lorna and Loyne Higgs
Holly Higinbotham
Charles and Julie Hill
Beth Hindmarsh
Sarah Hofmann
Tom Honigford and Sharon O’Connor
Jennifer Horton
Susan Howard
Beth Ann Howes
Linda Huebner *
Jeff Hullstrung
Ann Hunsicker
Catherine Hunter
Hypertherm HOPE Foundation
Janice Jeffords
Roxane Johnson De Lear
Luanne Johnson
Patricle Jones
Kathryn Jorgensen
Karol Jane Josselyn
Jan Kane
Jon Kant
Nelson Kasir and Liz Blum
Keeney & Son Carpenters
Ron Kelley and Ann Spearing
Matt Kelly
Susan Kelly
Howard and Linda Kelton
Eileen Kerkos
Maeve Kim
Meredith Kimbell
Jeremy Kirchman
Marv and Bess Klassen-Landis

Donors

Susan Tiholiz
Tig and Elise Tillinghast
Charles and Katharine Tipper
Patty and Jim Tobin
Laura and William Tobin
Jim and Francie Tolan
Torkelson Family Fund at Fidelity Charitable
Jack and Ellen Travelstead
Tim Traver and Delia Clark
Erie and John Tunncliffe
Jacquelynn Tuxill
Georgia D Valentine Charitable Account at Schwab Charitable
Rod and Betty Vallee
Karen VanDoren
Ann Vanneman
Alison Violette and Ben Litchfield
Ross and Sandra Virginia
Steve Voigt
George and Patricia von Trapp
Howard L. Wagner
Claire Walker Leslie and David Leslie
Thomas Warhol
Richard A. Warren
Christine Wassaw
Jim and Tricia Wasserman
Gordon and Mari Watson
Thomas and Paulette Watson
Mary and Bernie Waugh *
Gail White
Jack Widness
Donna M. Wiegand-Bicknell
Ron and Norma Wiesen
Allan and Marianne Wildgust
Katherine Wilkerson
Andrew Williams
Rebecca Williams
Revee Williams and Sandra Anderson
Sandy and Tim Wilmot
Sally Wilson
Tracy Winn
Anthony Witte
Ann S. Wittpenn
Barb Wood
Joan Wood
Elizabeth Woods
Scott Woodward
Michael D. Wormser
Sunny and Mark Wright
Paula Yankuaskas and Dale Martin
Susan Zellweger
Barbara and Mike Zimmerman
Zimmerman Family
Thomas Zobrowski

CONTRIBUTORS

Up to $99
Anonymous (17)
Kate Abrams
Kathleen Achor
Emilie and Stuart Alexander
Judith A. Allard
Thomas Allegrezza
Alan Allen
Mrs. Charles Alling
Blake and Nancy Allison
Drs. Elizabeth Moen Alton and Raymond D. Barnes
Julia Alvarez and Bill Eichner
Georgeann Andrus
Carrie Armenio

Jim and Cheryl Arney
Jean Arrowsmith
Tom Aversa
Cheryl J. Barkley
Tina Barney and Sara White
Fred and Lana Bates
Beau Beaulieu
Cassandra Beauvais
Chloence Benedict
Eve Benen
Deborah Benjamin
Seth and Melva Bigelow
Elizabeth Billings and Michael Sacca
Harry and Sylvia Bingham
Birds of Vermont Museum
Elizabeth H.F. Bissell
Blake-Nuttall Fund of the Nuttall Ornithological Club
Matthew Bode
Carol and Bob Bois
Judy Bond
Bobbie Jean Booth and Sandra Hamm
Hollie Bowen
Hillel Brandes
Martin Breide
Carol and Will Brooke-deBock
Beverly Brown
Robert Buck
Charles C. Buell
Holly B. Bull
Ellie Burnham
Dakota Butterfield
Patricia Campbell
Barbara Carey
Bodo Carey
Robert and Anna Carnicella
Judy Carpenter and Karl Stein
Karen Casavant
Silvia Cassano
Charles and Kathryn Chamberlain
Doreen Chambers
Rob and John Chapman
Claire Chomontowski
Michael Choukas Jr.
Virginia Clammer
Margaret Clark
Randy Clark
Clattenburg Family Fund at Fidelity Charitable

Michael and Susan Coffey
Abby Colihan
Joan Collins
Ken Copenhaver
Pete Corradino
Alison Couture
Bruce and Cheryl Cox
Joan Cramer
Catherine Crawley
Jason and Michaela Crooks
Roger Crouse
Walter Culver
Priscilla Daggett
Anne Dannenberg
Matt Darrow
Pamela Darrow
Raven Davis
Douglas and Valerie Dillon
Linda DiSante and Jim Schweinhearn
Ginny DiStefano
Mary Dodge
Domus Inc.
Terri Donovan and Peter Jones
Dresden School District
G. Richard and Bonita M. Dunas Family Charitable Fund
Charles Dutelle
Elizabeth Edgerton
Allyson Evans
Heather Ewing
Fairbanks Museum and Planetarium
Sandra Fary
David and Julie Filiberti
Sorayn and Howard Fitzpatrick
Bruce K. Flewellen
Walt Frey
Friends of the Mississipui National Wildlife Refuge
Jonathan Frishtick and Holly Glick
Amelia Fritz
Holly Fulton
Connell and Nancy Gallagher
Cate Garvey
Nancy Gaudreau
Liz and Alan Gee
Bonnie Geisler
Trudy Gerlach
Anna Gerretson *
Eloise Girard

“Your work is vital and appreciated by all of us. I still savor my overnight on Mansfield.”

—MARY WAUGH

© BY IRCIELAND
With introducing her to iNaturalist, which Jody now refers to as a “magic carpet that connects your backyard to the rest of the world.” Her backyard happens to host an impressive number of unusual bees, including several species previously unknown from the Northeast Kingdom.

A Barn Orbweaver launched Andrée into arthropod photography. “I went back and back, with tighter and tighter shots. I fell in love. I moved on to any arthropods I could find,” she says. With the help of her husband, Andrée spotted and identified the many “wonderful miracles living mostly invisibly” around their house in Barton. Since 2013, she has shared her photographs on iNaturalist and BugGuide, documenting at least 1,000 species in Orleans County. This year, she and Jody added malaise traps to their yards to help a PhD student studying ichneumonid wasp systematics. —Spencer Hardy

VCE COMMUNITY SCIENTISTS OF THE YEAR

DEBORAH LARAMIE, JODY FREY, AND ANDRÉE SANBORN

As with most VCE projects, the Vermont Wild Bee Survey (VTBees) has benefited from an incredible wealth of skilled and dedicated volunteers. This year alone, 428 people have contributed observations to our project on iNaturalist. VCE has recognized the accomplishments of three of these remarkable volunteers—Deborah Laramie, Jody Frey, and Andrée Sanborn—for their work helping us document bee (and other taxa) diversity in less-studied parts of Vermont.

Deborah got hooked on insects by horseflies, which prompted her to set up a trap to monitor the different species tormenting her horse on her property in Addison. For the past three years, she has meticulously collected any bees in the trap, sharing her findings with VTBees. Deborah’s work has provided VCE with an amazing dataset that includes several species we’ve otherwise missed and offers a multiyear window into the bee fauna of a unique natural area.

During the COVID-impacted summer of 2020, Jody finally found time to document the diversity of flora and fauna in her Barton backyard. She credits her good friend Andrée with her extraordinary commitment to birds and wildlife conservation through her tireless work as a community scientist.

A lifelong teacher, George is in his element when introducing people to birds and the natural world. He frequently leads community birding walks in the Upper Valley, where he has served on the Norwich Trails Committee, the Milton Frye Nature Area Committee, the Norwich Conservation Commission, and the steering committee of New Hampshire Audubon’s Mascoma chapter.

During the second Vermont Breeding Bird Atlas, George served as volunteer coordinator for northern Windsor County. During this multi-year project, he organized scores of amateur birders to beat the bushes for nesting birds, logged 450 hours in the field, and wrote 22 of the 209 species accounts for the Atlas book. Last, but far from least, George’s contributions as an inveterate Vermont eBird user can hardly be ignored—he ranks ninth on the state’s all-time list of checklists submitted with more than 6,500 and No. 1 in his home Windsor County.

Learn more about this award and George’s service as a community scientist at vtecostudies.org/about-us/community-science-award.
I just received your strategic plan, which is full of your important projects. What you are doing is beyond awesome.”

—JEREMY COLEMAN

Donors

Louanne Nielsen
Craig Nolan
Joanne and Dick Norton
Eric Nuse
Timothy O’Donoghue
Gloria Oest
Dave and Kay Oles
Kate Olgiati and Dory Rice
Rodney and Meghan Olsen
Otter Creek Audubon Society
Joseph and Joyce Ouellette
Bill and Hannelore Overgard
Chris Owen and Patricia Hazouri
Michael Palombo
Rick and Susan Paradis
Dian Parker
Dr. Thomas Parker
Deb Parrella
Phyllis Parrott
Michael Peice
Joshua Phillips
Patrick Phillips
Vicki Pinault
Carlos and Christine Pinkham
Dave Potter
Craig and Donna Powers
Tamara Purcell
Owen Rachambell
Margaret Ramsdell
The Reimans Family
Barbara Reynolds
Wanda Rice
Terry Rich
Pip Richens
Rebecca Richman
Alyssa Rimmer and Matthew Henderson
Sharon Roa
Sue Roberts and Steve Victor
Laura Robertson and Kurt Behrens
Larry and Mona Rogers
Tom Rogers
Barbara Roggeween
Kathryn S. Roosa
William Round
Marc Roy
Alan A. Rozycki
John W. Sabolka
Susan Safenstein
Robert Salter
Anne Sargent Walker
Micah Hill Saste and Sachin Saste
Ridge Satterthwaite
Susan Sawyer
Christa Scholz
Jody and Jim Schubert
Mr. Wayne Scott
Karen Seaman
John and Rita Ruiz Severinghaus
Dennis Shaffer and Amy Enter-Shaffer
Nathaniel Sharp
Andrew and Jennifer Shaw
Shell Oil Co. Foundation Matching Gifts
Lisa Sicotte and Kenneth Alberti
Ann Slattery
Emily Sloan
Mary E. Sloat
Billie Smith
Dwayne Smith and Susan Pelkey Smith
Laura and William Tobin
Jacquelyn Tuhill

GIFTS IN HONOR

In honor of Dave Capen
Dr. Brian Farrell
In honor of George Clark
Richard L. Brooks
In honor of Carolee Colter
Dakota Butterfield
In honor of Liz Conlin and Robert Smith
Jim and Francie Toland
In honor of Alexander Dickey
Don and Mary Faulkner
In honor of Ben Fletcher
Erin Mills
In honor of Anna Gerretson
Owen Rachambell
In honor of Frank Gill
Larry Master
In honor of Farnsworth and Franny Hack
Hannah T. Gordon
In honor of Eric Hanson
Virginia Clammer
Elaine Mangi-Buck
Dian Parker
Gregory and Nina Sharp
Kim Stewart
Jim and Tricia Wasserman
Lisa von Kann
In honor of Spencer Hardy
Revere Williams and Sandra Anderson
In honor of Jason Hill, Ph.D.
Judith Obrecht
Micah and Sachin Saste
In honor of Patricia Jarvis
Kevin and Polly Murdough
In honor of Donley Johnson
Sally and Jon Marquis
In honor of Laura and Sherman Kent
Scott Woodward
In honor of Brian and Sandi Lincoln
Crawford and Ann Lincoln
In honor of Marjorie Linton
Anonymous
In honor of All the Loons Out There
Ms. Maddy Motta
In honor of the Loons on Shadow Lake, Concord, VT
The Renfro-Pihat Family
In honor of Kent McFarland
Alice and Richard Morse
In honor of Lucie Murphy
Kathleen Murphy
In honor of Louis and Beverly Megyesi
Jennifer Megyesi
In honor of Will Melton
Jack Widness
In honor of Claire Merritt
Joanna Mintzer and Donald R. Ferrell
In honor of Charlotte Metcalf
Mimi Baird
In honor of Northeast Kingdom
Open Water Swimming Association (NEKOWSA)
Paula Yankauskas and Dale Martin
In honor of my Parents
O.S. Webb

SUSTAINERS

Sustainers support VCE throughout the year via monthly or quarterly donations.

Joan Aleshire
Chaunce Benedict
Sarah Cooper-Ellis
Bill and Ginger Cotten
Cynthia Crawford
Anne Cummings
David Eberly
Keith and Laurie Gee
Barbara Hamilton
Bill and Roseann Hayes
Becky Howe
Brucie Hubbell
Roxane Johnson De Leer
Amber Jones
Kathleen and William Kruesi
Kim Kurak
Corey LeBlanc
Tita and Oliver Manice
Kendall Mix
Blair Nikula
Nancy Osgood
Ben Rimmer and Maggie Pratt
Christina Ryan
Lisa Schukei
Micah and Sachin Saste
Lisa Sincof
O.S. Webb
In honor of Dean Peterson
Dr. Henry Keutmann and Dr. Ilene Gipson
In honor of Judy Peterson
Amy and Don Peterson
In honor of Roy Pilcher
Sue Welmore
In honor of Owen Rachambell
Anna Gerretson
In honor of Jay Reed
Timothy Curtis
In honor of Chris and Leslie Rimmer
Frederick and Sophia Crawford
Laurie Gillespie
Billi Gash
Coleen Lawlor
Rebecca Richman
Clare Walker
Howie and Sue Wemyss
Reeve Williams and Sandra Anderson
In honor of the Rimmer Family
Larry Morris
Michael Peirce
In honor of Jason Saltman
Kim Kurak
In honor of Janet Steward and Roy Shatney
Andrea Gould and Charlie Barasch
In honor of David Tobias
The Tow Foundation
In honor of the VCE staff
Nancy Mitiguy
Nancy Osgood
Rebecca Richman
In honor of Carol Whitehouse
Daniel Lambert
In honor of Barbara Winstanley
The Nashawtuc Charitable Fund at Schwab Charitable

GIFTS IN REMEMBRANCE
In memory of Peter and Ann Brooke
John F. Brooke
In memory of Matt Caulo
Deb and John Caulo
In memory of Charlie, Ann, Betsey, and Bill
Bill William B. Scarborough
In memory of Ellen “Dubby” Curtis
The Dolan Family
In memory of Alexander Dickey
John and Lucy Douglas
Nick Scheu
In memory of Closey Dickey
Charles Dickey and Sheila Wyckoff-Dickey
Kathryn Dunn
George Giffen
Peter Mason and Laurie Harding
Molly P. Scheu
Nick Scheu
In memory of Ruth Dolan
Tina Scharf
In memory of Patricia W. Eckels
Keith and Laurie Gee
In memory of Abbott T. Fenn
Ethan Fenn
Gale Hurd
In memory of Mike Field
Cynthia L. Field

In memory of H. Lindsay Findlay
Farfield Farm Fund
at the Vermont Community Foundation
In memory of Anne Garrigue
Paul Garrigue and Susan Van Kleek
In memory of Richard A. Harter
Mai Harter
In memory of Ken and Ramona Flewelling
Bruce Flewelling
In memory of Larry Gilbert Sr., Betty Davis, Alberta Mattson, Stanley & Madyne Moran, Mike Moran, and Thom Ford
Greenwood Lake Association
In memory of Jerry Jeffords, who
would keep the bird feeders full
during harsh Vermont winters
Janice Jeffords
In memory of Ernest Licht
Linda Romans
In memory of Mr. and Mrs. Robert Lovely
Stephen Burchell
In memory of Sean Manamay
Nancy Tanen
In memory of my Mom, who brought me
to Vermont
Roxane Johnson De Lear
In memory of Julie Nicholson
Polly Foley
In memory of Pat Nye
Christine Warsaw
In memory of George W. Peck IV
Irene G. Peck
In memory of Gerald Peterson
Susan Peterson
In memory of my beautiful Irish Mama,
Mary Isabella Randall
Sharon Randall
In memory of Esther Renfrew
Virginia Renfrew
In memory of Pat and Bill Renfro
The Renfro-Pilutfamily
In memory of Louise M. Rich
Terry Rich
In memory of Ted Richards
Paula A. Gibbs
In memory of Charles P. Rimmer and
Lisa B. Rimmer
Katie and Bob Bateson
Mollie and Henry Fair
Mollie and Tom Hoopes
Larry Morris
Quebec Labrador Foundation
Andrew and Tish Rimmer
Alyssa Rimmer and Matthew Henderson
Ben Rimmer and Maggie Pratt
Chris and Leslie Rimmer
Claire C. Rimmer
Dave and Mary Rimmer
In memory of Thomas Roberts
Sue Roberts and Steve Victor
In memory of Carol D. Saunders, Ph.D.
SB Legacy Fund at Schwab Charitable
In memory of Janey Schreiber
Pete Corradino
In memory of Danny Shand
Anonymous

In memory of Lewis Shattuck
Anonymous
In memory of Linere Silloway
Holly B. Bull
In memory of Elizabeth H. Valentine
Anonymous
Jared and Songmei Keyes
In memory of Linda A. Wagner
Howard I. Wagner
Mavisville Water and Light
Vail Resort
CONSORTIA & PARTNERSHIPS
Forest Ecosystem Monitoring Cooperative
International Bicknell’s Thrush Conservation Group
FEDERAL – UNITED STATES
Green Mountain National Forest
National Park Service
U.S. Dept. of Defense Legacy Program
U.S. Fish & Wildlife Service
U.S. Forest Service Office of International Programs
U.S. Geological Survey
White Mountain National Forest
INTERNATIONAL
Atlas of Living Australia
Centro Oriental de Ecossistemas y Biodiversidad (Cuba)
Consortio Ambiental Dominicano (Dominican Republic)
Environment and Climate Change Canada
Global Biodiversity Information Facility (Denmark)
Grupo Jaragua (Dominican Republic)
Insectarium Montreal (Canada)
Space for Life in Montreal (Canada)
UK Centre for Ecology and Hydrology (UKCEH)

NONPROFIT – DOMESTIC
Adirondack Center for Loon Conservation
Adirondack Mountain Club
Appalachian Mountain Club
Ascutney Mountain Audubon Society
Audubon Vermont
Avian Haven
BirdsCaribbean
Birds of Vermont Museum
Biodiversity Research Institute
California Academy of Sciences
Cornell Lab of Ornithology
Corporation for National and Community Service (AmeriCorps)
Friends of the Missiquoi National Wildlife Range
Green Mountain Audubon Society
Loon Preservation Committee
Manomet Inc.
Merck Forest & Farmland Center
National Aviary
National Geographic Society
New Hampshire Audubon
North Branch Nature Center
Northeast Kingdom Audubon Society
Otter Creek Audubon Society
Sociedad Ornitológica Puertorriqueña Inc.
Southern Vermont Natural History Museum
The Nature Conservancy
Vermont Community Foundation
Vermont Entomological Society
Vermont Institute of Natural Science
Vermont Public Radio
Vermont Reptile and Amphibian Atlas
STATE – MAINE
Maine Dept of Inland Fisheries & Wildlife
STATE – NEW YORK
N.Y.S. Dept of Environmental Conservation
STATE – VERMONT
Vermont Agency of Transportation
Vermont Department of Environmental Conservation
Vermont Fish & Wildlife Department
Vermont Forests, Parks & Recreation Department
UNIVERSITIES
Alabama Museum of Natural History – Odonata Central
McGill University
Tufts University Wildlife Veterinary Clinic
University of Arizona
University of New Hampshire
University of Ottawa
University of Vermont
University of Vermont Natural History Museum
University of Vermont Spatial Analysis Lab

GIFTS TO THE ALEXANDER DICKY CONSERVATION INTERNSHIP FUND
Berger Family Fund at the New Hampshire Charitable Foundation
Charles Dickey and Sheila Wyckoff-Dickey
Stephen Whitney Dickey Jr.
John and Lucy Douglas
Kathryn Dunn
Don and Mary Faulkner
Martha Faulkner
Ann Gormley and Richard Wallace
Nick Scheu
Telaka Foundation
<table>
<thead>
<tr>
<th>2021 CROWD-SOURCED DATA PROJECTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VERMONT ATLAS OF LIFE ON INATURALIST</strong></td>
<td></td>
</tr>
<tr>
<td>7,759 VOLUNTEERS</td>
<td>487 VOLUNTEERS</td>
</tr>
<tr>
<td>201,112 OBSERVATIONS</td>
<td>33,177 RECORDS TO THE VERMONT DATASET</td>
</tr>
<tr>
<td>4,516 SPECIES IDENTIFIED</td>
<td>6,464 CHECKLISTS</td>
</tr>
</tbody>
</table>

| **eBIRD**                        |           |
| 3,909 eBIRDERS                   | 22,967 PHOTOGRAPHS |
| 285 SPECIES                      | 665 SPECIES |
| 110,980 COMPLETE CHECKLISTS      |           |

ONE SPECIES NEW TO THE STATE: CLOUDLESS SULPHUR (Phoebis sennae)