UNITING PEOPLE AND SCIENCE FOR CONSERVATION
Together, we’re leading the way for biodiversity.

Community scientists in Vermont have submitted more observations, per capita, into shared biodiversity databases than any other state.

To read more about VCE’s Vermont Atlas of Life, see page 6.
Dear VCE friends and supporters,

By any measure, 2022 was a transformational year for VCE, marked by no fewer than three major milestones for the organization and its work.

First, we honored the inspirational leadership of Founding Executive Director Chris Rimmer, who retired in October. Chris and his co-founders launched VCE in 2007, and Chris has led the venture with unwavering passion, scientific rigor, and humor through fifteen incredible years. We are grateful beyond words for his vision and commitment to building an organization that strives for excellence and achieves it with heart. Please enjoy the retrospective of his pioneering work on the pages that follow.

Next, we surpassed our $4.5 million fundraising goal for the first phase of our strategic plan campaign. The outpouring of support empowers us to plan with confidence and ambition as we move to maximize our conservation impact. The future of this organization and Vermont’s ecosystems just got brighter, thanks to the generosity and foresight of those who’ve given to the campaign so far. We can’t possibly thank them enough.

The third milestone was the purchase of our office building in White River Junction. A generous donor made it possible for us to establish a permanent home base for our staff, volunteers, and visitors—without depleting any operational or program funds. If you’re in town, please come by to check out the space and say hello!

Through this time of organizational growth, we’re also committed to retaining the qualities that helped our young organization thrive. With steadfast partners, donors, and volunteers, a wise board of directors, and a talented and innovative staff, VCE will continue to build unity and community around a common purpose. We are this century’s stewards of nature, and science is our guide.

We hope you’ll enjoy the updates, outcomes, and discoveries from some of VCE’s signature projects on the pages that follow—and that you’re proud to be a part of this rewarding and essential work.

Susan Hindinger
EXECUTIVE DIRECTOR

Peter Brooke
BOARD PRESIDENT
Thank you, Chris!

Chris Rimmer, VCE co-founder and its executive director for the last fifteen years, retired on October 1, 2022. Those who’ve had the privilege of working with Chris know him as a multi-talented leader of innovative, community-fueled conservation science. The energy and care he’s devoted to VCE and its greater community is nothing short of inspiring. Here are just a few of the milestones along his journey.

The Spark

Though he started out as a classics major at the University of Vermont, Chris found his calling during a summer bird banding internship at Manomet with Trevor Lloyd-Evans, who became an influential mentor and life-long friend. Upon his return to UVM, Chris promptly changed his major to wildlife biology and eventually went on to earn an M.S. in ecology and behavioral biology at the University of Minnesota.

Early Work

Following graduate school, Chris landed his first full-time job as director of research at the Vermont Institute of Natural Science (VINS), where he initiated programs to monitor and conserve at-risk species, including Common Tern, Peregrine Falcon, and Common Loon. He also began studying a newly declared species—the Bicknell’s Thrush—that would come to dominate his research and define his career as an ornithologist.

Bicknell’s Thrush

In 1992 when Chris and Jon Atwood, then at Manomet, first ventured up mountains inhabited by Bicknell’s Thrush, there was scant information about the species’ status and ecology. Their first step involved documenting the bird’s distribution in the U.S. by enlisting a network of volunteers to survey sites from New York to Maine. At the same time, Chris and Jon launched an intensive demographic study of the species on Mount Mansfield. Over 30 years later, hundreds of community scientists, ornithologists, students, conservationists, land managers, and others have joined these first efforts. Today, we monitor the population annually, coordinate the International Bicknell’s Thrush Conservation Group, and continue to solve mysteries about this bird’s enigmatic lifestyle high up among fog and fir trees on Mount Mansfield.

*Chris and Mark LaBarr banding common terns.*
The Caribbean Connection

In 1994, Chris expanded his Bicknell’s Thrush research into the mountains of the Dominican Republic, where he set up long-term study plots. He and his collaborators have since tagged over 100 thrushes to reveal the birds’ migratory pathways. They can now tag a bird in Vermont and pinpoint its precise two-acre winter territory in a Cuban, Dominican, or Haitian forest patch. Chris’ work to study and conserve this globally vulnerable songbird has established enduring partnerships across the hemisphere.

Mount Mansfield

Far more than a study site, Mount Mansfield has become, in many ways, Chris’ muse—his source of ecological inspiration, ornithological discoveries, and personal rejuvenation. One of his great pleasures has been sharing his expert knowledge of Bicknell’s Thrush and its montane habitat with hundreds of people on this iconic mountain.

Founding VCE

Ready to chart their own path, Chris and fellow VINS biologists Kent McFarland, Rosalind Renfrew, Julie Hart, Eric Hanson and Steve Faccio launched VCE in 2007 with a common goal of advancing wildlife conservation through a combination of ecological research and community engagement. Chris took on the role of executive director and spent fifteen years building the organization’s budget, staff, volunteer and partner networks, suite of projects, and positive impact on Vermont and beyond. All the while, he maintained an active research and conservation program where Bicknell’s Thrush breed and winter.

Mentorship

A huge part of Chris’ legacy lies in the opportunities he created for others. Through scores of training workshops, countless mentoring relationships, internships, and even bull sessions between mist net checks, Chris never stopped inspiring those around him—especially students and young professionals—to keep learning. He has boosted and even launched robust careers for scores of Caribbean and North American researchers and conservationists.

“Chris has been one of the most influential mentors in my career, shaping the scientist and conservation biologist I have become. I suspect Chris never imagined I would go on to become an eager student of molt and develop a new molt-based aging system. All of this was made possible because of his willingness to teach an eager mind. Thanks, ‘Dr. Molt.’ I will forever be in your debt.”

—Brandt Ryder
PhD, Chief Conservation Scientist
Bird Conservancy of the Rockies

Recognition/Awards

Chris forged hundreds of connections in the ornithological community through more than three decades of mentorship, collaborative research, and conservation partnerships. These relationships have so far produced upwards of 120 publications as well as a legacy of respect and goodwill that spans five biomes from James Bay to the Greater Antilles. His influence on avian ecology and on fellow scientists is evident in a pile of awards that includes the Partners In Flight Investigation Award (1999, with Kent McFarland), the David N. Pasiley Lifetime Achievement Award (also from Partners In Flight, 2021), and the Wilson Ornithological Society’s Margaret Morse Nice Award for lifetime contributions to ornithology (2022).

PARTING THOUGHTS

“After a tenure at VCE more rewarding than I can begin to express, it was my honor to pass the baton to a talented new generation of leadership. I am immensely proud of the work we’ve all done together, and I could not be more enthused and confident about VCE’s future. This organization has never been stronger or more vibrant. Its promise is unlimited, its potential barely tapped. The growth ahead for VCE will not change the core values that got us this far, but it will dramatically magnify our impacts for science-based conservation and our ability to tackle challenges facing us all.”

—Chris Rimmer
VCE’s Data Powerhouse Delivers

The Vermont Atlas of Life (VAL), VCE’s high-tech engine for harnessing the state’s biodiversity data and putting it to work for conservation, shows how community science can change the world. And we’re just getting started.

Since its inception in 2013, the number of documented observations in VAL reached more than 7 million by the end of 2022, comprising more than 11,000 species. The vast majority of those records—more than 95%—were submitted by community scientists using guidance and tools provided by VCE. Working together, we’ve made Vermont the nation’s leader in community science observations per capita, hopefully blazing the trail for other states and regions to follow.

Because VAL was strategically built using open-source platforms integrated with the Global Biodiversity Information Facility (the international hub for biodiversity data), all that hard-earned Vermont data are available to anyone, anywhere in the world to inform new research, conservation action, and policymaking. Here’s what that looked like in 2022:

**VAL VITALS**

*as of 12/31/2022*

<table>
<thead>
<tr>
<th></th>
<th>7,109,295</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECORDS</td>
<td></td>
</tr>
<tr>
<td>SPECIES OBSERVED</td>
<td>11,381</td>
</tr>
<tr>
<td>DATA SETS IMPORTED</td>
<td>700</td>
</tr>
<tr>
<td>CITATIONS IN SCIENTIFIC PAPERS</td>
<td>100</td>
</tr>
</tbody>
</table>
VAL is empowering us to be more effective than ever in our work, and its long-term potential for helping us achieve conservation victories is enormous.

A New Tool for Free & Full Access

The new VAL Data Explorer now enables anyone, anywhere to explore vast amounts of biodiversity data from across the Green Mountain State. VCE software developer Jason Loomis worked closely with GBIF to ensure smooth integration and maximum utility. Users can now filter and download data, create custom maps, image galleries and tables, and much more. The VAL Data Explorer can be found at val.vtechostudies.org under the “EXPLORE DATA” tab.

VAL and the New UN Biodiversity Framework

United Nations Member States came together in December of 2022 for the UN Biodiversity Conference (COP-15). VCE, with its Vermont Atlas of Life, joined a global network of biodiversity data partners to inform their decisions. The result was the Kunming-Montreal Global Biodiversity Framework—a landmark international agreement to drastically reduce biodiversity loss by 2030. The framework is grounded in 23 specific targets related to ecosystem restoration, invasive species management, land and sea conservation, and other critical areas.

“We need to monitor progress toward achieving these new targets, which requires documenting status and trends of biodiversity from around the world over time,” says VCE biologist and VAL Director Kent McFarland. “The Vermont Atlas of Life does exactly that here in Vermont while also contributing to the global picture.”

Working Smarter

Because VAL was built and has evolved so strategically, and because the community scientists in Vermont are so engaged, the total amount of data available is growing at an incredible pace. And as the data get more robust, they become invaluable for modeling, reporting, and designing projects likely to have the greatest conservation impact. Here’s a pair of examples from 2022:

› Drawing information from more than 50,000 records in VAL, we published “The State of Vermont’s Wild Bees,” the first-ever report on the status, threats, and conservation opportunities for these critical pollinators. See page 8.

› Because VAL contains tens of thousands of photo-observations of moths, we were able to feed that information into an AI prototype designed to identify moths drawn to revolutionary continuous-monitoring stations. See page 10.

Visit val.vtechostudies.org
Our Landmark Case for Wild Bees

VCE has produced the first-ever comprehensive report on Vermont’s vitally important wild bees. It’s a big step toward an even more ambitious goal—an integrated conservation strategy for the whole spectrum of Vermont’s pollinators.

There is a growing public awareness that bees are both important—most notably as crop and wild plant pollinators—and a conservation concern. And while bumblebees and non-native honeybees get most of the attention, there are hundreds of wild bee species in Vermont that have received little to none... until now.

From 2019 through 2022, VCE, in partnership with the Vermont Fish & Wildlife Department, has been going all-out to learn more about wild bee species richness, abundance, and distribution through its first Vermont Wild Bee Survey. By digitizing historic records and enlisting community scientists to record additional observations (and did they ever, logging nearly half of the 352 species present and 22% of the total records!), the wild bee data set in the VAL ballooned to nearly 60,000 records.

Armed with all those data, Vermont is now one of very few states equipped to produce reliable, actionable analyses about its wild bees. Using the VAL Data Explorer, VCE has done just that with its historic report, “The State of Vermont’s Wild Bees,” which includes sections on current knowledge, threats, conservation opportunities, and next steps.

Visit stateofbees.vtatlasoflife.org

Here are just two of the ways this landmark report changes the game:

➢ VCE has now assigned nearly all of Vermont’s wild bees an “S-Rank,” a standardized ranking used by regulatory agencies and conservation groups to focus management efforts on species at highest risk of collapse or extinction. The new report identifies 55 species in urgent need of protection in Vermont.

➢ Sophisticated new models generated from VAL data have revealed 12 distinct “Important Bee Areas” within Vermont that support unique bee communities and/or rare bee species as well as region-specific conservation recommendations for each.

From here, VCE will work with a coalition of scientists, natural resource managers, decision makers, conservation planners, and others on a task force to develop a comprehensive “Vermont Conservation Strategy for Pollinators.” Together, we can—and must—provide a landscape where these animals can thrive and serve their ecosystems, now and for future generations.

> Bi-colored Sweat Bee

> The map shows how bee diversity across Vermont may change given anticipated climatic conditions. Visit the State of Bees report to view an interactive map.
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.
Using AI in the Race to Save Insects

To protect insects against decline and collapse, we need a more robust accounting of their populations and population trends. VCE is working with international partners on a revolutionary new way to speed up that process—autonomous, computer-controlled monitoring stations that attract insects and use artificial intelligence (AI) to identify them. First up: Moths.

Moths are an incredibly diverse group of insects that are important to the ecosystems they inhabit. They are a valuable food source for everything from spiders to bears, and are vital and prolific pollinators, too.

Scientists are concerned that moths, like a great many other insect groups, may be in rapid decline. If that sounds indecisive, it’s because baseline population data for moths is spotty at best. Why? Because surveying moth populations across large areas using boots-on-the-ground field techniques is very challenging. For starters, most of the astronomical number of species—thousands in Vermont alone—are nocturnal.

To tackle the knowledge gap with the urgency of the moment, VCE’s Kent McFarland and a team of biologists, engineers, and computer scientists from around the world have designed and built autonomous, computer-controlled monitoring stations—stationary robots, basically—that can survey moths continuously, in any environment, and orders of magnitude faster than human researchers ever could.

In 2022, the team successfully field-tested the units in the United Kingdom, Canada, Cyprus, Panama, Argentina, and of course here in Vermont.

At sunset each night, the units automatically turn on using a solar-powered battery. The computer triggers the camera to snap an image each time a moth lands or moves on the moth-attracting UV light panel. Each image is then analyzed by AI, first to determine if it is a moth, then—if it is—to classify it.

Building reliable AI for identifying moths in this way requires feeding the software lots of information from which it can “learn” to distinguish one species from another. Due almost entirely to VCE’s mobilization of community scientists to document moth sightings over the last decade, we were in a unique position to provide that information. Those records—well over a hundred thousand of them, logged through VCE projects on iNaturalist, and available via the VAL—are the knowledge base on which this powerful new technology is being built.

Ultimately, these units will be feeding vast amounts of data back into VAL. And while the first-generation machines are focused on moths, efforts are already underway to expand monitoring capabilities to other taxa as well. The potential torrent of new data could revolutionize our ability to detect insect population changes and create effective conservation plans.
**FUN FACT**

The scientist charged with building the AI for this project is Dr. David Roinick, professor at McGill University. David is a pioneer in machine learning applications for climate change and biodiversity, but we first got to know him as a budding, 12-year-old naturalist who volunteered to help us with the first Vermont Butterfly Atlas in the early 2000s. It was clear at the time that David was destined for great things, and it’s an honor to be working with him again.

**Communicating Science**

- **Suds & Science:** VCE biologist Jason Hill hosts this live and laid-back free program, in which guest scientists talk about their work and engage in Q&A with the audience. Explore the video archive and learn about upcoming programs at vtcostudies.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 vtcostudies.org/subscribe or find past issues at vtcostudies.org/enews.

- **Field Notes:** Our annual spring and autumn news magazine offers in-depth explanations of the 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 vtcostudies.org/field-notes.
Staging a Comeback for Meadowlarks

At the request of the Vermont Fish & Wildlife Department, VCE is producing the state’s official recovery plan for the threatened Eastern Meadowlark—and will lead the monitoring effort to track progress.

The U.S. Department of the Interior’s annual North American Breeding Bird Survey indicates that Vermont is now losing 8.7% of its remaining Eastern Meadowlark population, already decimated from historic highs, every year. In February of 2022, the Eastern Meadowlark was officially designated as a threatened species in the state, meaning it’s likely to become endangered without timely intervention.

Successful conservation of any species depends on a robust understanding of its resource preferences, range and distribution, breeding behaviors, and other factors. But because Eastern Meadowlarks’ preferred grassland habitat makes them difficult to observe, they’ve likely been underrepresented in traditional survey work and datasets. To begin addressing the situation, VCE has recently been conducting field surveys dedicated solely to Eastern Meadowlarks, more than doubling the number of meadowlark records in the Vermont eBird database.

Now, because of VCE’s expertise in ornithology and conservation and our volunteer network’s unequalled capacity to monitor meadowlarks statewide, the Vermont Fish & Wildlife Department has contracted with us to produce the state’s official Eastern Meadowlark Recovery Plan. Among key elements will be finding and protecting previously unreported breeding sites and enlisting the help of property owners who have breeding birds on their land. We also need to learn more about these birds’ relatively unknown migration patterns, which will allow for a whole-lifecycle approach to conservation that may extend beyond our borders.
Adding Invertebrates to the Bird Equation

High-elevation ecosystems are fragile and spatially limited, and wildlife there exists in a delicate balance. VCE’s Mountain Birdwatch program has launched a new project to find out how bird populations in New England’s mountains might be changing based on an under-studied food source: invertebrates.

Every June for the last 22 years, VCE’s Mountain Birdwatch biologists and volunteers have conducted bird counts in the high-elevation spruce-fir zone all over northern New England. Data now stored in the Vermont Atlas of Life show that the populations of the ten target species are, in fact, changing, with most in decline. The next logical question is why? One way to address that question is to follow the food.

Invertebrates are essential prey items for each of the birds in the Mountain Birdwatch study, but there haven’t been enough invertebrate data collected in the spruce-fir zone for a baseline understanding of their populations. This year, VCE set out to change that, adding a separate survey of invertebrates at 42 Mountain Birdwatch locations across Vermont and New Hampshire.

In total, we collected and painstakingly identified over 5,000 specimens, mainly flies (60%) and beetles (18%). Notably, those communities were very consistent across sites, indicating that the sampling methods were reliable. As a result, we now have the clearest image yet of these specific invertebrate communities and, critically, a baseline for comparison with future surveys.

VCE biologist Jason Hill then did an initial correlation analysis between the new invertebrate data and data for six of the birds in question. He was surprised to find that the abundance of each bird species did not mirror invertebrate community diversity nor overall invertebrate biomass. Instead, each bird species’ abundance was associated with just one or two groups of invertebrates.

We will continue this landmark study in parallel with our annual Mountain Birdwatch surveys. Over time, the data will help us understand much more about how bird and invertebrate populations are related, and how we might design more effective conservation strategies.
Matching Birders with Private Landowners

The vast majority of Vermont’s forestland is privately owned and beyond the reach of traditional wildlife studies. To address one gap in our knowledge, VCE and Bird Diva teamed up to create Birder Broker, a service that connects expert birders with landowners interested in learning about the birds within their property lines. Three years in, the project is revealing important breeding data from previously uncharted territory.

Knowing where Vermont’s forest birds nest and raise their young is critical to designing conservation plans likely to ensure their long-term success. Using eBird’s mobile app, Birder Broker volunteers keep track of this valuable information on bird behavior by using “Breeding Codes,” a standardized system for noting whether a bird is a possible, probable, or confirmed breeder. In 2022, our amazing Birder Broker volunteers coded 69 different species across 18 properties, with nearly 80% of all observations coded as either confirmed or probable breeders.

Participants also compiled 50 checklists, comprised of 96 total species, into Vermont eBird. Among them were two—Carolina Wren and Lincoln’s Sparrow—that hadn’t been previously seen or heard during Birder Broker surveys. And, thanks to the program, National Audubon Society scientists have discovered a new breeding hotspot for two species of warblers known to be in decline.

Finally, landowners who learn which species of birds are breeding and raising young right in their backyards can make informed decisions about forest management to support as many species of breeding birds as possible.
Safeguarding Vermont’s Loon Recovery

Thanks to VCE’s Vermont Loon Conservation Program, the state’s loon population is back to nearly full capacity after a period of alarming declines. Now, we’re ramping up our biopsy and necropsy work to assess ongoing and emerging threats, and to inform strategic, future-focused management plans.

In 2022, VCE embarked on its third year of performing necropsies* on every recovered deceased loon in the state. Unlike most other methods, necropsies allow us to obtain a precise cause of death. Without performing necropsies, we’d be unaware of two rising causes of loon mortality: aspergillosis (a pulmonary infection caused by a fungus) and malaria (a mosquito-borne disease that causes anemia). We also examined loons killed by ingesting fishing gear, confirming that this remains an issue that needs to be addressed.

Another critical part of our loon health research is analyzing blood and feather samples. Through these samples, we can better understand the impacts of mercury, malaria, and aspergillosis at the population level among loons that may otherwise show no signs of illness. With mercury in particular, we can use our results to guide environmental policy and make management recommendations.

By collecting these valuable data and contributing them to continent-wide studies, we strengthen conservation efforts here in Vermont and help ensure the recovery of loons across their range.

*Special thanks to Bren Lundberg from the Vermont Institute of Natural Science (VIINS), the University of New Hampshire Diagnostic Veterinary Laboratory, and Dr. Mark Pokras and his students at the Cummings School of Veterinary Medicine at Tufts University for their invaluable partnership in this effort.
Connecting Policymakers with Scientists

The Science to Policy Working Group, a new partnership including VCE and policy-focused organizations in Vermont, held its first Science to Policy Forum for legislators. The Forum clarified the scientific dimensions of key policy issues and opened new channels for ongoing consultation.

While VCE is not an advocacy organization, we are committed to ensuring decision-makers understand our work and serving as a scientific resource for legislators. Over three webinars, scientific experts from across Vermont discussed climate change and landscape resilience, forest health and biodiversity, and water quality. By sharing our work with policymakers, we inform ecologically sound policies, connect legislators with our knowledgeable team of biologists, and build collaborations with other policy-minded colleagues across the state.

A Sampling of VCE’s Community Science Opportunities

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

Loon Conservation
Whether you live alongside a lake or only occasionally visit your favorite pond, VCE offers several options for interested loon volunteers.

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

Whip-poor-will Project
On moonlit nights in early summer, volunteers set out on 17 roadside survey routes to listen for Eastern Whip-poor-wills and record conditions.

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.

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.

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.

Cocoon Watch
During the month of November, volunteers find and photograph cocoons hanging in bushes and trees. They return in the spring to document what emerges.
Meeting Teachers Where They Are

With the launch of Community Science Teacher Education Workshops, VCE is empowering teachers to meet the Next Generation Science Standards using community-based project design, open data platforms, and the ecosystems right outside their doors.

Vermont and New Hampshire are among 20 states using a new teaching system to help K–12 students realize that science is not only something they can grasp—it’s something they can do. The system, known as the Next Generation Science Standards, is inquiry-based, meaning students are encouraged to ask their own questions and develop hands-on research approaches to find the answers.

If that sounds like community science, it absolutely is. And that’s why VCE decided to lend its unique expertise in that realm to the effort. For decades, VCE has been leading projects and building tools that open doors to anyone who wants to make a meaningful contribution to conservation science. Now we’re sharing that knowledge with teachers through a new Community Science Teacher Education Workshop series, which includes a stipend to reduce financial barriers to participation.

The first of these annual four-day workshops, based at VCE’s Upper Valley headquarters in July, was a huge success. Our scientists and educators worked with local teachers on experimental design and field sampling techniques that can be applied to a broad range of ecological questions their students might want to investigate right in their own neighborhoods.

This is critical, because one of the surest ways to make science feel relevant for young learners is using it to create a deeper connection to their everyday environments. We also integrated data-sharing platforms like VCE’s Vermont Atlas of Life to demonstrate how hyper-local data collection can tie students’ work into a much larger scientific picture.

Ryan Rebozo, VCE’s director of conservation science and co-leader of the workshop, said it best: “The positive ripple effect generated by empowering teachers is hard to match, and VCE is immensely proud that this new venture does just that.”

Special thanks to the New Hampshire Charitable Foundation’s Welborn Ecology Fund and Hypertherm’s HOPE Foundation for their funding support for this program. Thanks also to science educator, naturalist, and community science project leader Ron Smith for co-facilitating the workshop.
Levi Smith
VCE Junior Community Scientist of the Year

On a brisk November day, former VCE ECO AmeriCorps member Julia Pupko led a group of community scientists in search of Giant Silk Moth cocoons at Brookmead Conservation Area. One young participant, Levi Smith, began sharing information about silk moths with those around him. It quickly became apparent that his knowledge of these insects was extensive, Julia recalls. “Not only can he tell you everything about each species’ cocoon, but he also spends the weeks when the adult moths are flying meticulously recording each individual attracted to his blacklight, staying up until all hours of the night.”

Julia invited Levi to co-lead the next cocoon hunt in the Zebedee Wetlands. He arrived well-prepared, right down to his collection of cocoon samples for each moth species. “Levi absolutely rocked that event,” Julia says. “His ability to confidently describe each moth’s phenology and cocoon strategy made our bioblitz a tremendous success.”

“When I heard about the Vermont Giant Silk Moth Cocoon Watch last fall, I was excited to get involved,” Levi said. He quickly became the project’s top contributor on iNaturalist. “After I started posting cocoons, I got really interested in other taxa, like galls, mosses, fungi, and lichens.” Today, Levi’s iNaturalist contributions number nearly 13,000, representing more than 2,700 species. Each observation represents a single data point in the Vermont Atlas of Life, where it helps VCE biologists and professionals across the state better understand and predict biodiversity trends.

As part of this award, VCE sent Levi and his mom to the 2023 Northeast Natural History Conference in Burlington, VT. Levi wrote to say, “Thank you so much for sending me to the conference. I really enjoyed it and I learned so much. I liked learning about stoneflies, carnivorous plants, and seeing my mom get excited about native bees. I also got to identify Jerry Jenkins’ moss samples to win a signed book, and explore Colchester Bog and Niquette Bay State Park. I hope my mom will take me to the conference again next year in New York.”
Ian Worley

Julie Nicholson Community Science Award

“I was born looking around the world to see what was there.” Ian Worley’s innate curiosity may help explain why he began finding salamanders at age three, building model airplanes at four, and ultimately studying multiple disciplines: math, physics, biology, philosophy, history, literature, and theology.

Today, Ian applies his expertise and passion to community science endeavors. He notes, “There are four hallmarks of modern science—repeatable methods, documentation, review, and publication.” In all tasks, he considers how to add rigor to community science projects and thus is drawn to participating in those that feature all four hallmarks. Ian’s participation in eBird and VCE community science projects is an endorsement of their robust methodology.

In 2009, Ian responded to a call for Vermont eBird Volunteer Reviewers from VCE’s Kent McFarland. What started as reviewing checklists in the Champlain Valley for an hour per week steadily grew to over 30 weekly hours validating lists for many locations worldwide, spanning the Arctic and North Atlantic oceans to the subantarctic Indian Ocean. “I enjoy the global impact one can have as an eBird reviewer,” Ian explains. However, Ian isn’t only an energetic reviewer—he’s also a major eBird contributor himself, having recently submitted his 25,000th checklist.

In addition to his enormous eBird presence, Ian also conducts community science field work to support VCE projects. Among his numerous contributions to our research, he has maintained Forest Bird Monitoring Program routes at Bristol Cliffs Wilderness Area and West Rupert for several years and conducted Eastern Whip-poor-will surveys for over ten years at many locations, including Snake Mountain and sites in Pawlet, Monkton, and Hinesburg.

We at VCE recognize Ian’s contributions to community science and thank him for his outstanding work. As Chris Rimmer points out, he was nominated for this award because “Ian has consistently gone to extraordinary lengths as an eBird reviewer and outreach champion. Not only has he invested innumerable hours reviewing eBird reports from around the state, he has also offered meticulous feedback to those who have submitted exceptional (sometimes questionable) records. Ian has also submitted an extraordinary number of checklists himself. The amplified rigor of Vermont eBird owes much to Ian’s efforts.” Ian continues to be a vocal community science ambassador, encouraging participation in VCE’s ever-expanding long-term monitoring projects.
By supporting this work, you are *doing* this work.

Thank you!
| VISIONARIES |
| $100,000+ |
| Anonymous |
| Annette Gosnell* |
| The Estate of Roberta Summers |
| Taylor Family Fund at Vermont Community Foundation |

| CHAMPIONS |
| $50,000 to $99,999 |
| Anonymous (2) |

| INNOVATORS |
| $25,000 to $49,999 |
| Anonymous |
| Binnacle Family Foundation |
| Will and Laurie Danforth Fund at Vermont Community Foundation |
| Birgit Deeds |
| Dextra Baldwin McGonagle Foundation |
| Emily Landecker Foundation, Inc. |
| Gail Osherenko and Oran Young Park Foundation |
| Ruth Stewart* |
| Carter and Lissa Winstanley |

| STEWARDS |
| $10,000 to $24,999 |
| Anonymous (3) |
| Peter W. and Ruth H. Brooke* |
| Concrete Giving Fund at Fidelity Charitable |
| Brian and Erika Dade |
| Davis Conservation Foundation |
| Jonathan Gibbon and Eliza Mabry |
| Drs. Karen and Peter Hanson |
| Hidden Hill Giving Fund at Schwab Charitable |
| Gale Hurd |
| Carolyn B. Jackson |
| Warren and Barry King |
| Lintilhac Foundation |
| Charlotte Metcalf* |
| Pompanoosuc Mills |
| Clara C. Rimmer* |
| The Rumel Leitner Family Fund |
| TechFoundation, Inc. |
| The Edwin S. Webster Foundation |
| The Wildwood Foundation |

| GUARDIANS |
| $5,000 to $9,999 |
| Anonymous |
| John F. Brooke |
| William Chester |
| George Clark* |
| Richard Dreissigacker and Judy Geer |
| Steve and Mary Gorman |
| Paul M. Guyre |
| Sean Lawson |
| Stephanie and Philip McCaull |
| New Hampshire Charitable Foundation |
| Wellborn Ecology Fund Robins Foundation |
| David Roby |
| Joanna Sturm |
| Georgania Terry |
| The Tow Foundation |
| Wendling Fund of Berkshire Taconic Community Foundation |
| Wilson Conservation Trust |

| PROTECTORS |
| $1,000 to $4,999 |
| Anonymous (4) |
| Charles and Jill Agnew |
| Clear Skies Fund |
| Lee Allen |
| August 23 Fund of the Vermont Community Foundation |
| Birds & Beans, LLC |
| Jiggs Blackburn and Judy Lam* |
| Bobolink Fund at The Vermont Community Foundation |
| Charles E. & Edna T. Brundage Charitable Science & Wildlife Conservation Foundation |
| Carolyn Foundation |
| Dr. Celia Chen |
| Katherine Coppock |
| Gerrit Crosby |
| Ann B. Day* |
| Stephen Whitney Dickey, Jr. |
| Whit and Closey Dickey Fund at New Hampshire Charitable Foundation |
| John and Lucy Douglas |
| Philip and Deborah Edmundson Fund at Fidelity Charitable |
| Elliott Fisher and Nancy Cochran |
| Emily Fisher and John Alexander |
| Jim and Susan Ford |
| Carolyn and Milton Frye |
| The Estate of Betty Gilbert |
| Susan Gillett* |
| Alan and Kris Graham |
| Donald Graham and Carol Barr |
| Great River Hydro |
| Sandy and Edward Hack* |
| Hanover Consumer Cooperative Society, Inc. |
| Norm and Jane Hanson |
| Hardy Family Fund at Vermont Community Foundation |
| Patricia Highberg |
| Robert and Lisa Holley |
| Donna and Peter Hollinger |
| Hypertherm HOPE Foundation |
| The Robert K. and A. Joyce Jones Foundation, Inc. |
| Sarah Jones |
| Barbara M. Jordan |
| Gregory Kaufman and Ellen Seidman |
| Jonathan Keyes |
| Peter and Claudia Kinder Fund of the Vermont Community Foundation |
| Lake Raponda Environmental Foundation |
| Steve Leach and Kathy Kirkland |
| John and Carolyn Marsh |
| Winifred McDowell |
| Gary and Nancy Meffe* |
| Bill Mercia |
| Rick and Leslie Mengenthal |
| The Nashawuc Charitable Fund at The Chicago Community Foundation |
| Norwich Women’s Club The Nutshells Support Fund at Vanguard Charitable |
| The Oakland Foundation |
| Nancy Osgood |
| Samuel and Missy Palmisano |
| Darlene and Ernest Palola |
| Paris Family Gifting Fund at Advisors Charitable Gift Fund |
| Judy Peterson |
| Nicki Pfister |
| The Pitchot Fund at Vanguard Charitable |
| Frederick Pratt |
| Chris and Leslie Rimmer* |
| Brent R. Rohloff and Lorna J. Kane-Rohloff |
| Tina Scharf |
| Roger Schoenbeck |
| Nicholas Skinner |
| Suz Stilleringer |
| Stone House Farm Fund of the New Hampshire Charitable Foundation |
| The TAG Philanthropic Foundation |
| Carolyn Tager |
| Susan and Carl Taylor |
| Susan Tiholz |
| Tom and Charity Tremblay |
| Anne Valentine |
| Kathy Van Der Aue |
| Jon E. and Terri Voigtman |
| Stan and Jenny Williams Family Fund of New Hampshire Charitable Foundation |
| Clive Wood and Stella Martin |
| William C. and Joanna M. Wright |
| Gail S Yanowitch Account at Raymond James Charitable Endowment Fund |

| CONSERVERS |
| $500 to $999 |
| Clay and Liz Adams |
| Lee and Carmen Anderson |
| Flavia Barros |
| Charlotte and Hal Bill |
| MaryJane Boland and Daniel Picard |
| Barbara Butler |
| Amanda Cannell-Boone and Peter Boone |
| David and Barbara Capen Concept2, Inc. |
| Faith Corwin |
| Kevin and Valerie Crowley |
| Judy Davis |
| Randy Dettmers |
| Penelope Doherty |
| Louis duPont and Ellen Spring |
| Ruth Einstein and Bryan Pfeiffer |
| Marvin and Susan Elliott |
| Alexander Ellis III |
| Mollie and Henry Fair |
| Luisa and Charles Finberg |
| First: Earth Project |
| Friends of Wolcott Pond |
| Marilyn R. Fuller |
| Gillette Hill Fund at Fidelity Charitable |
| Kate Gillis |
| Marcia Gregey |
| Ann Gormley and Richard Wallace |
| Bill and Bobby Gosh |
| David Goudy and Susan Gallagher |
| Growald Climate Fund |
| Bill and Roseann Hayes |
| Hazel Fund at the Vermont Community Foundation |
| Heritage Engineering, PC |
| Hesler Family Fund at Fidelity Charitable |
| Susan and Todd Hindinger |
| Mallie and Tom Hoope |
| Peter Iakson and Helen Hamman |
| Bruce and Anne James |
| JFM Fund of the Vermont Community Foundation |
| Claudia and Peter Kinder |
| Sally Laughlin* |
| LOTS Family Fund at Vanguard Charitable |
| Tita and Oliver Marince |
| Dr. Martha McDaniel and Dr. Stephen Plume |
| Robert and Gloria McEwen |
| Barbara Mcllroy |
| Gail and Mark McPeek |
| Patterson Family Fund at New Hampshire Charitable Foundation |
| Mark S. Pecker and Elizabeth A. McGee |
| Charlotte and Elizabeth Phillips |
| Ned and Cathie Redpath |
| Renfro-Phit Family |
| Judy Richardson |
| Alyssa Rimmer and Matthew Seyferth |
| Mike and Jean Smith |
| Sorg-Vogt Charitable Foundation |
| Rosemary Spahn and Mike Korkuc |
| Nancy and Jim Stead |
| Beth T. Stevens |
| Brooke Stevens |
| Georgia D Valentine Charitable Account at Schwab Charitable |
| Marianne and Michael Walsh* |
| Ann S. Wittpenn |
| Woodstock Gift Account at Fidelity Charitable |

| SUPPORTERS |
| $100 to $499 |
| Anonymous (12) |
| Peg Ackerson |
| Barbara Adams |
| Joan Aleshire |
| Bill Allen |
| Robert and Nancy Anderson |
| Steve Antell and Barbara Leaf |
| Theresa A. Armata |
| Cheryl Asa |
| Averill Lakes Association |
| Tom Avera |
| Charles and Diana Bain |
| Mimi Baird |
| Leslie Baker-Brown and Cam Brown |
| Thomas C. Barber |
| Steve and Sallie Barker |
| James Barrett |
| James Barry and Mary Quinton-Barry |
| Linda Barry |
| Christine A. Bartlett |
| Elizabeth Bassett and John Pane |
| Robert Bast & Laura Carlsmith Fund at Schwab Charitable |
| Chaunce Benedict |
| Benevity Community Impact Fund |
| Dale and Jeri Bergdahl |
| Berger Family Fund at the New Hampshire Charitable Foundation |
DONORS

Wallace Elton
Ben Emary and Karin Tilberg
Peter and Nancy Engels
The Engels Family Fund at Fidelity Charitable
Emme Erdossy
Margery Erle Fields
Sabina Ernst
Everlasting Herb Farm
Gilda Faccio
Fairline Marine
Family Gift Fund at Fidelity Charitable
James and Gretchen Farnsworth
Jim and Cindy Faughnan
Sarah Fellows
Ethan Fenn
Jeffrey and Nancie Fernandez
Cynthia L. Field
David and Julie Filiberti
Ken Finch
Anne Fines
Lionel and Ardys Fisher
Brian T. Fitzgerald
Gerry Fitzgerald
William Fitzgerald
Lynne Fitzhugh
Polly Foley
C.J. Frankiewicz*
Victoria Fraser
Dirk and Elizabeth Frater
Keith Frederick
Olga French
Conrad and Lea Frey
Jody Frey
Friends of Green River Reservoir
Friends of the Missisquoi National Wildlife Refuge
Veer-Tess Frost
Gade Mc Ardle LLC
Ted Gaine
Charles and Jerrine Gangas
Jennifer Garber
Arthur Gardiner
Marty & Cathy Gardner Fund at Schwab Charitable
Paul Garrigue and Susan Van Kleeck
Louis and Nancy Gaudreau
Keith and Laurie Gee
Aliena Gerhard
Barbara D. Gerstner*
Barbara Gibbs
Seth Gibson
Cathy and Lou Gilbert
Margaret Gilbert
Paula A. Gills*
Linda Gionti
Mackenzie Goldthwait and Douglas Kibble
Alice Goodwin
John and Judy Graham
Clive Gray
Janet C. Green
Jeffrey B. Green
Susan and Dean Greenberg*
Bob and Suzanne Griffiths
Paul Gruhler
Mark and Susan Guimette
Robert Gurwitt and Karen Harris
Richard and Marcia Haas
Steve and Sumita Halasz
James and Cynthia Hall
Brian A. Harrington Fund at The T. Rowe Price Program for Charitable Giving
Mari Harter
Nicholas and Constance Harvey
David Hawkins
Haynes & Garthwaite Architects
Hobble Giving Account at Fidelity Charitable
Ann Hicks
Richard and Michelle Hicks
Micah Hill Saste and Sachin Saste
Libby Hillhouse
David Hoag
Judith Hobbs
Dr. Richard Holmes
Kit Hoof
Lisa Hoopes and Phil Gutowski
Robert W. Hoppe
Susan and Ned Houston
Becky Howe
Beth Hunton
Jim and Sharon Jackson
Susan James
Theodore Jastremski
Bob and Shirley Johnson
Helen Johnson
Peter Johnson and Claire Lyon
Rita and Win Johnson
Amber Jones
Kyle Jones
Hank Koestner
Ken and Karen Kaliski
Robert and Sue Kancr
Janine Kanzler
Brad Ketover
Henry Keutmann and Ilene Gipson
Christopher Kibble
Mike and Tawnya Kiernan
Maeve Kim
Angus King III
Karen Kluge* and Terry Rosenmeier

“VCE makes a big difference every day by helping people like me learn more, care more, want to be community scientists, engage others, and inspire others to care enough to take action too!” —JOY SCHUBERT

Dr. Mark Knott
Barbara Kohn
Jan Komives
Lake Harvey Association
Daniel Lambert
Mary Landon
Landsberg Marshak Fund at Fidelity Charitable
Ron and Linnea Laperle
Denis and Nancy LaPointe
Peter Larsen
Margie and Tom Latham
Nicholas Leadley
Leaf-Antell Fund at Schwab Charitable
William Leeson and Heather Karlson
Fund at Schwab Charitable
Lucie Lehmann
Linda and Steve Lemke
Tom and Karen Lea
Peter and Kathy Leonard Community Fund at Schwab Charitable
Sheryl and Fred Lerner Fund at Fidelity Charitable
Rob and Linda Libby
John and Diane Liccardi
Brian and Sandi Lincoln
Jeanne Lindheim
Katherine Linton
Richard Littauer
Craig and Gail Llewellyn
Scott Longtin
Lois Lorimer and Bill Sullivan
Ellen Lovejoy
Gordon MacFarland*
Bruce and Pam MacPherson
Jeanne-Marie Maher
James and Nancy Malcolm
Ellen H. Maloney
Ezra and Sandra Mann
Meredith Markow
Jane Marlin

* Bicknell’s Legacy Society  ^ Deceased
Contributors

Up to $99
Anonymous (18)
AmazonSmile Foundation
Kate Abrams
Kathleen Archibald
Emily Aiken
Emile and Stuart Alexander
Judith A. Allard
Ted Allen
Dr. Elizabeth Moen Alton and Raymond D. Barnes*
Julia Alvarez and Bill Eichner
Carrie Arminio
Jim and Cheryl Arney
Joy Askins
Tina Barney and Sara White
Beau Beau lieu
Cassandra Beauvais
Eve Benen
Molly Bidwilling
Elizabeth Billings and Michael Sacco
Marsha Booker
Bobbie Jean Booth
Margaret Borden*
Jonathan Bouton
Hollie Bowen
Richard and Nicole Boyden
Marta Brede
Colleen and Vinnie Brennan
Katharine Britton
John Brodhead and Gina Campoli
Carol and Will Brooke-deBock
Barbara Brodman and John Chamberlain
Beverly Brown
Kevin and Lucinda Brown
Rob Buck
Holly Buley and John Wall
Ella Burnham
Patricia Campbell
Carol Cantwell
Bodo Carey and Betsy Glaubingeck
Marina Carleton
Judy Carpenter and Karl Stein
Sara Cavin
Charles and Kathryn Chamberlain
Rob and Jan Chapman
Paul Chebator
Claire Chomentowski
Michael Choukas Jr.
Virginia Clamer
Robert Clark
Clattenburg Family Fund at Fidelity Charitable
Natalie Cohen
Abby Colihan
Jane and John Conner
Ken Copenhagen
Tim and Sarah Cowan
Kathleen Cox
Maura Crandall
Ruth Crawford
DONORS

Elisabeth McLane
Christy and Marc Mihaly
Donald H. Miller, Ph.D
Erin Burke Mills
Bill and Sue Minard
Paul Holmes
Tom Honigford and Sharon O’Connor
Jamie and Nancy Horton
Susan Howard
Linda Huebner*
Rob and Doris Humphries
Ann Hunsicker
Janice Jeffords
Donley Johnson
Roxane Johnson De Lear
Kathryn Jorgensen
Karlo Jane Josselyn
Rachel Kane

Blythe Hazelfield
Laurie Helise and Ronald Hein
Don and Bev Heise
Lorna and Layne Higgs
Holly Higinbotham
Charles and Julie Hill
Nathan and Monica Hill
Beth Hindmarsh
Sarah Hofmann
Frederick and Joyce Holmes
Paul Holmes

“...your tireless quest to protect the environment through quality research and community science.”
—MARY WAUGH

I admire your tireless quest to protect the environment through quality research and community science.”

Dave and Sarah Reeves
Cordelia Reimers
Wanda Rice
Carolyn Rich
Kenneth Rich
Terry Rich
Carol Yarnell
Pip Richens
Jackie and Rich Menge
Eileen Riley
Laura Robertson and Kurt Behrens
Barbara Roggeveen
Christopher Rohan
Elisabeth Rondinone
Kathryn S. Roosa
David Rosen and Carol Claus
Alan A. Rozicky
John Sabatka
Jeff Salisbury and Michele Tullis
David R. Scarborough
Jody and Jim Schubert
Nathaniel Sharp
Andrew and Jennifer Shaw
Lisa Sicotte and Kenneth Alberti
William Slocom
Dwaine Smith and Susan Pelkey
Smith
Robert Smith
Ronald and Lisa Smith
Derick Snare
Barbara Snook
Diane G. Snyder
Peter Solberg and Lisa Furmanski
Christine Soyckak
Norma C. Spaulding
Patty Spencer
Laurie Spry
Jon and Cindy Stableford
Kim Stewart
Lee and Mary Stewart
Kate Summey Frank
Rebecca Talcott
Louise C. Thompson
Paula Thompson
Peter and Thelma Thompson
Andrew Toepfer
Tim Traver and Delia Clark
Rebecca Trudeau

* Bicknell’s Legacy Society ^ Deceased
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 (9)
Drs. Elizabeth Moen Alton and Raymond D. Barnes
Peter W. and Ruth H. Brooke
George Clark
Colm Darcy and Carol Radic
Ann B. Day
Karen Fiebig
C.J. Frankiewicz
Catie Garvey
Anna Gerretson
Barbara D. Gerstner
Alv and Susan Gillotti
Paula A. Gill

Annette Gosnell
Lynda Graham-Barber and David Hunter
Susan* and Dean Greenberg
Edward Hack
Linda Huebner
Jodi and Songmei Keyes
Karen Kluge
Judy Lam and Jiggs Blackburn
Sally Laughlin
Dan and Joyce Lindner
Gordon MacFarland
Gary and Nancy Meffe
Jennifer Megyesi

Charlotte S. Metcalf
Roy W. Pelcher
Joan Randall
Charles Jr.* and Clare C. Rimmer
Chris and Leslie Rimmer
Elizabeth Ruim
Carla Skinner
Jim Stamp and Thomas Anderson
Peter and Mary Stangel
Ruth Stewart
Marianne and Michael Walsh
Mary and Bernie Waugh

Bob and Linda Tucker
Melinda Underwood
Ellen Valley
Ann Vanneman
Alison Violet and Ben Litchfield
Melissa Volansky
Lisa von Kann
Alison Wagner
Mike and Linda Wakefield
Paul and Jane Watson
Kathy and Scott Weaver
David L. Webb
Mary Lou Webster
Laura Weickert
Libby Welch
Diane J. Wessel
Sue Wetmore
Glenelle Wetzel
Richard and Suzie Wheeler
Thomas and Anne White
Patty Wiley
Kate Williams
Dottie and Charlie Windsch
Mike and Korea Winslow
Charles Wohlers
Ms. Wendy Wolfe
Woodbury Lake Association
Emilie Woodward
Gail Yanovitch
Shirley Zundell

SUSTAINERS
Sustainers support VCE throughout the year via monthly or quarterly donations.
Joan Aleshire
Chaunce Benedict
Paul Chebator
Ken Copengaver
Bill and Ginger Cotten
Cynthia Crawford
Anne Cummings
David Eberly
Soryun and Howard Fitzpatrick
Keith and Laurie Gee
Aliena Gerhard
Raymond Gonda
Emily Gordon
Barbara Hamilton
Micah Hill Saste and Sachin Saste
Donna and Peter Hollinger
Becky Howe
Roxane Johnson De Lear
Amber Jones
Kim Kurak
Jane MacKugler
Tita and Oliver Manice
Blair Nikula
Nancy Osgood
Jeanne and Jon Raymond
Renfro-Phlip Family
Alyssea Rimmer and Matthew Henderson
Ben and Maggie Rimmer
Christopher Rohan
Christina Ryan
Lisa Schueke
Wayne Scott
Nathaniel Sharp
Dr. Scott Sillett
Lynn Spensley and Erika de Papp

Gus and Cameron Speth
Joanna Sturms
Tim and Janet Taylor
Laura and William Tobin
Jacquelyn Tuxill
Ann S. Wittppen
Charles Wohlers
Clive Wood and Stella Martin
Emilie Woodward

GIFTS IN HONOR
In honor of Ann Buck
Victor Davich
In honor of Hal D. Casey
Barb Zander and Dennis Casey
In honor of William Cochran
Elliot Fisher and Nancy Cochran
In honor of Mary Daly
Diana and Jerry Senturia
In honor of Clossey Dickey
Ann Gormley and Richard Wallace
In honor of Kathleen Doyle and James Graves
Anonymous
In honor of Harriet Duncan
Susan and Todd Hindinger
In honor of Nancy Fitzpatrick
Soryun and Howard Fitzpatrick
In honor of Ben Fletcher, Salamander
King
Eron Hills
In honor of Chuck Gangas
Kathleen Rhinesmith
In honor of Anna Gerretson
Owen Rachamabell
In honor of the Green Mountain
Goatsuckers
Bill and Roseann Hayes
In honor of Eric Hanson
Jim and Cheryl Arney
Virginia Clamer
Betsy Day
Carol Dell

Meredith Kimbell
Dian Parker
John Rathjen
Susan and Carl Taylor
Jim and Tricia Wasserman
In honor of Eric Hanson and the
volunteers who work to keep loons
save and healthy
Barbara Stearns
In honor of Jason Hill
Micah Hill Saste and Sachin Saste
In honor of Susan Hindinger
Margaret and Salvatore Corso
Holly Nash Wolff
Eric and John Tunnillife
In honor of Carol Hulley
Barbara Snook
In honor of Patricia Jarvis
Kevin and Polly Murdough
In honor of Susan Kleiber
Molly Bidwell
In honor of Tom Liston
Christopher Rohan
In honor of Kent McFarland
The Richard B & Alice B Morse
Giving Fund
In honor of Lucia Murphy
Kathleen Murphy
In honor of Dean Peterson
Henry Keutmann and Irene Gibson
In honor of David Phelps
Lisa Phelps
In honor of Roy Pilcher
Sue Wetmore
In honor of Owen Rachambell
Anna Gerreton
In honor of Chris Rimmer
Anonymous (7)
Clay and Liz Adams
Bill Allen
Leslie Baker-Brown and Cam Brown
Jiggs Blackburn and Judy Lam
Mary Jane Boland and Daniel Picard
Margot Borden*
Mistie Boule
Karen Bourque and Robert
Horton
Margaret Briggs
Barbara Butler
Amanda Cannell-Boone and
Peter Boone
Deb and John Caulo
William Chest
George Clark
Margaret Clark
Pete Corradino
Ellen Cranon
Gerrit Crosby
Ann and Fred Curran
Brian and Erika Dade
Will and Laurie Danforth Fund
at the Vermont Community
Foundation
Ann B. Day
Birgit Deeds
Randy Dettmers
Courtney Dobyns
Louis duPont and Ellen Spring
Betsy Eccles
Marvin and Susan Elliott
Wallace Elton
Evergreen Erb
Mollie and Henry Fair
Emily Fisher and John Alexander
Brian T. Fitzgerald
Jim and Susan Ford
Dirk and Elizabeth Frater
Olga French
Carolyn and Milton Frye
Gade McDardle LLC
Ted Gaine
Charles and Jerrine Gangas
Seth Gibson
Sonia Gilliotti
Paula A. Gill
Marcia Gnagey
DONORS

Billi and Bobby Gosh
Annette Gosnell
Susan* and Dean Greenberg
Robert Gurwitz and Karen Harris
Sandy and Edward Hack
Steve and Sunita Holasz
Norm and Jane Hanson
Hardy Family Fund at Vermont Community Foundation
Hidden Hill Giving Fund at Schwab Charitable
David Hoag
Donna and Peter Hollinger
Lisa Hoopes and Phil Gotowski
Mollie and Tom Hoopes
Carolyn B. Jackson
JMM Fund of the Vermont Community Foundation
Kyle Jones
The Robert K. and A. Joyce Jones Foundation, Inc.
Gregory Kaufman and Ellen Seidman
Thomas Kearney
Warren and Barry King
Lindsay Knowlton
Emily Landerer Foundation, Inc.
Sally Laughlin
Sean Lawson
Steve Leach and Kathy Kirkland
Tom and Karen Leo
Trevor Lloyd-Evans and Linda Leddy
Bruce and Pam MacPherson
John and Carolyn Marsh
Larry Master
Stephanie and Philip McCaull
Gail and Mark McPeek
Gary and Nancy Meffe
Bill Mercia
Charlotte Metcalf
Jack and Karen Morgan
Larry Morris
Elizabeth Morse
Yosef Osheyack and Annie Ashley
Darlene and Ernest Paliola
Worth Parker and Mary Margaret Andrews
Mark S. Pecker and Elizabeth A. McGee
Vicki and John Peiffer
Judy Peterson
Nicki Pfister
Roy W. Pilcher
Carol Pinney
Ann and Tip Ray
Ned and Cathie Redpath
Judy Richardson
Alyssa Rimmer and Matthew Henderson
Ben and Maggie Rimmer
Claire C. Rimmer
Dave and Mary Rimmer
Leslie Rimmer
Anita Rogerson
The Rumt Leithner Family Fund at Vanguard Charitable
Tina Scharf
Li Shen
Carla Skinder
Marisa Smith
Mike and Jean Smith
Eric Sorenson and
Cathy Kaschanski
Gus and Cameron Speth
Betsy T. Stevens
Valerie Stori
Joan Strachan
Talaka Foundation
Steve Trombulak
Erin and John Tunnicliffe
Kathy Van Der Aue
Clare Walker Leslie and David Leslie
Marianne and Michael Walsh
Christine Warsaw
Reeve Williams and Sandra Anderson
Ann S. Wittppenn
In honor of Leslie Rimmer
Sara Cavin
In honor of Jason Saltman
Kim Kurak
In honor of Harry Saxon
Scott Longtin
In honor of Emmet Sirjane Anonymous
In honor of Elizabeth Smith
Jim and Francie Tolan
In honor of Robert Smith
Jim and Francie Tolan
In honor of Peter Stangel
Jon E. and Terri Voigtman
In honor of David Tobias
The Tow Foundation
In honor of VCE staff
Nancy Osgood
Jim and Francie Tolan
In honor of Don and Libby Welch
Kate Gillis
In honor of Carol Whitehouse
Daniel Lambert

GIFTS IN REMEMBRANCE

In memory of all the loon chicks who didn’t get to fledge
Jane MacKugler
In memory of Will and Jane Curtis
Katherine C. Donahue
In memory of Phil Davis
Wally Malley and Garet Allen-Malley
In memory of Alexander Dickey
John and Lucy Douglas
Nick Scheu
In memory of Closey Dickey
Molly F. Scheu
Nick Scheu
In memory of Rosemarie Doughearty
Sylvia Bingham
In memory of Patricia W. Eckels
Keith and Laurie Gee
In memory of Abbott T. Fenn
Ethan Fenn
In memory of Ken and Ramona Flewelling
Bruce K. Flewelling
In memory of Charles P. Giersch
Giersch Family Charitable Gift Fund at Schwab Charitable
In Memory of Martha Lamb
Martha Smith
Mike and Jean Smith
Eric Sorenson and
Cathy Kaschanski
Gus and Cameron Speth
Betsy T. Stevens
Valerie Stori
Joan Strachan
Talaka Foundation
Steve Trombulak
Erin and John Tunnicliffe
Kathy Van Der Aue
Clare Walker Leslie and David Leslie
Marianne and Michael Walsh
Christine Warsaw
Reeve Williams and Sandra Anderson
Ann S. Wittppenn
In honor of Leslie Rimmer
Sara Cavin
In honor of Jason Saltman
Kim Kurak
In honor of Harry Saxon
Scott Longtin
In honor of Emmet Sirjane Anonymous
In honor of Elizabeth Smith
Jim and Francie Tolan
In honor of Robert Smith
Jim and Francie Tolan
In honor of Peter Stangel
Jon E. and Terri Voigtman
In honor of David Tobias
The Tow Foundation
In honor of VCE staff
Nancy Osgood
Jim and Francie Tolan
In honor of Don and Libby Welch
Kate Gillis
In honor of Carol Whitehouse
Daniel Lambert

GIFTS TO THE ALEXANDER DICKIE CONSERVATION INTERNSHIP FUND
Berger Family Fund at the New Hampshire Charitable Foundation
Stephen Whitney Dickey, Jr.
John and Lucy Douglas
Nick Scheu

PARTNERS

VCE thanks you!

BUSINESSES
Birds & Beans Coffee
Coaticook River Water Power Company
Great Bay Hydro
Great River Hydro
Green Mountain Power
Hardwick Electric Department
Morrissville Water and Light
Vail Resort

CONSORTIA & PARTNERSHIPS
Automated Insect Monitoring Group (AMI)
Biodiversity Vermont to Consortia & Partnerships eButterfly.org
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
Canadian Forest Service-Atlantic Forestry Centre (Canada)
Centro Oriental de Ecosistemas y Biodiversidad (Cuba)
Consortio Ambiental Dominicano (Dominican Republic)
Environment and Climate Change Canada
Global Biodiversity Information Facility (International)
Grupo Jaragua (Dominican Republic)
Insectarium Montreal (Canada)
Mila – Quebec Artificial Intelligence Institute
Space for Life in Montreal (Canada)
UK Centre for Ecology and Hydrology

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
California Academy of Sciences
Cornell Lab of Ornithology
STATEMENT OF FINANCIAL POSITION

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>AS OF 12/31/22</th>
<th>AS OF 12/31/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT ASSETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CASH</td>
<td>$813,840</td>
<td>$1,019,812</td>
</tr>
<tr>
<td>CONTRIBUTION RECEIVABLES</td>
<td>44,081</td>
<td>56,355</td>
</tr>
<tr>
<td>GRANT RECEIVABLES</td>
<td>222,560</td>
<td>178,290</td>
</tr>
<tr>
<td>PREPAID EXPENSES</td>
<td>32,489</td>
<td>25,756</td>
</tr>
<tr>
<td>CURRENT PORTION PLEDGES RECEIVABLE</td>
<td>182,461</td>
<td>202,000</td>
</tr>
<tr>
<td>TOTAL CURRENT ASSETS</td>
<td>$1,295,431</td>
<td>$1,482,213</td>
</tr>
<tr>
<td>INVESTMENTS</td>
<td>3,695,987</td>
<td>2,791,325</td>
</tr>
<tr>
<td>EQUIPMENT, VEHICLE, WEB, NET</td>
<td>864,470</td>
<td>45,719</td>
</tr>
<tr>
<td>PLEDGES RECEIVABLE, LESS CURRENT PORTION SHOWN ABOVE</td>
<td>58,750</td>
<td>373,563</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>$5,914,638</td>
<td>$4,692,819</td>
</tr>
</tbody>
</table>

LIABILITIES AND NET ASSETS

CURRENT LIABILITIES
ACCOUNTS PAYABLE | 52,490 | 63,237 |
ACCRUED PAYROLL & RELATED TAXES | 148,572 | 129,636 |
CURRENT PORTION OF CAPITAL LEASE OBLIGATION | — | 1,181 |
CURRENT PORTION OF LONG TERM DEBT | 10,606 | — |
TOTAL CURRENT LIABILITIES | $211,668 | $194,053 |
LONG-TERM DEBT, LESS CURRENT PORTION ABOVE | 579,859 | — |
TOTAL LIABILITIES | $791,527 | $194,053 |

NET ASSETS
WITHOUT DONOR RESTRICTIONS | 4,353,209 | 3,553,786 |
WITH DONOR RESTRICTIONS-TIME OR PURPOSE | 769,902 | 944,981 |
TOTAL NET ASSETS | $5,123,111 | $4,498,766 |
TOTAL LIABILITIES & NET ASSETS | $5,914,638 | $4,692,819 |

STATEMENT OF ACTIVITIES

2022 REVENUE
PUBLIC AGENCIES | $273,301 |
ORGANIZATIONS/FOUNDATIONS | 230,659 |
INDIVIDUALS | 829,232 |
CAMPAIGN | 933,317 |
PROGRAM FEES | 29,040 |
OTHER | 9,107 |
TOTAL REVENUE | $2,304,656 |

2022 EXPENSES
SCIENCE AND CONSERVATION | $1,212,508 |
MANAGEMENT | 392,503 |
FUNDRAISING | 280,377 |
TOTAL EXPENSES | $1,885,388 |

The figures that appear in the financial summary shown above have been audited and received an unqualified opinion.
The Vermont Center for Ecostudies advances wildlife conservation across the Americas through research, monitoring, and community engagement.