Honoring Battell's Legacy: Middlebury's Unprecedented Conservation of Bread Loaf Today

By Morgan Forest Perlman '19

The Conservation Easment — A Legal Mechanism for Protecting Bread Loaf

The Bread Loaf Forest and Campus Zones, encompassing approximately 2,100 acres of woodland and fields is conserved in perpetuity by a conservation easement granted to the Vermont Land Trust by Middlebury College. A conservation easement is a conservation tool that uses the force of law to control how a piece of land is managed. Typically, an organization, known as a land trust, holds a conservation easement that restricts how a piece land is used; the land trust has the responsibility of ensuring the easement is enforced and the land is being managed within the easement's specific restrictions. Conservation easements can be financially attractive to large private landowners because they can be qualifiers for special tax deductions, but this doesn't apply to Middlebury as a non-profit institution. Easements typically last forever and subsequent land owners of a conserved parcel have to be willing to accept the terms of the easement. The one basic thing that is common with all conservation easements is a restriction that prevents development across the conserved landscape. Often there will be other unique restrictions, though, that have a goal of protecting the unique nature, biodiversity, or cultural value of a place. If the Vermont Land Trust noticed that Middlebury was logging one of Bread Loaf's specially designated "Ecological Protection Zones", they could intervene and, if necessary, take the College to court because it would violate the easement's legally binding agreement. Easements are a powerful conservation tool because they hold the force of law, last forever, and provide a high level of certainty for the future management of land. The Bread Loaf easement was written to allow for its particular uses as a campus, nordic ski center and educational resource to the college, as well as a biological preserve for the nature that inhabits the Bread Loaf wildlands. Since an easement is effectively permanent, both the Vermont Land Trust and the College had to work together to carefully to craft a special easement that meets present day needs while also being flexible to the potential realities of the future and, of course, fulfilling the primary goal of keeping Bread Loaf's natural character preserved forever. Unique to Bread Loaf's conservation easment is that it supports public use; most private conservation easments dont allow for public use. And that is one aspect that makes Middlebury's conservation of these lands so unprecdented — its deliberate protection of land for both humans and nature.

> **The Purposes of The Bread Loaf Conservation Easment:** Primary — (1) Biodiversity protection, (2) recreational uses, and (3) eductional opportunities Secondary — Conservation of the scenic open space, and historic and cultural resources

The Story of Conserving Bread Loaf —Middlebury's Achievment in Land Trust Conservation

June 23rd, 2015 was a celebratory day in Middlebury College's visionary environmental crash threatened the College's financial stability and ideas about the development value in selling

ect, demanding serious considerations over the economic, political, and practical realities of the College. How does the Board of Trustees, within their fiduciary duty to the College, forfeit a potential monetary asset of 2,100 acres of developable mountain land? Who will pay the cost if the College can't? How does the College consider the ecological features of Bread Loaf and ensure they are properly conserved while accommodating the practical needs of using Bread Loaf as a ski center and English school? Why even consider conservation in the first place? These are some of the many complicated questions that had to be answered to in the process of conserving Bread Loaf.

Inspiration for the project goes back as far as 1998 when an Environmental Studies Senior Seminar, under the guidance of Vermont Skiers make their way through a mixed yellow birch-red maple-red spruce forest wilderness advocate Jim Northup, persuaded President John McCardell to order an analysis of how the terms of Joseph Battell's will, stipulat- dlebury College's Rikert Nordic Center. ing the preservation of certain lands gifted to the college, were followed

be formed following his death.

conservation easement. His request was denied because the Board of Trustees felt they simply maintain the Bread Loaf campus into the future. The Board of Trustees used restricted College couldn't tie their hands and forfeit the ability to monetize the existing 2,100 acres of Bread Loaf ednowment funds to help pay for the other half of the development value, making this a successful lands.

Who's going to pay for the development value of Bread Loaf, since the College can't? Answerconserving Bread Loaf come to fruition. Further pressure started to build in 2008 when the financial Middlebury apart in this unprecedented conservation achievement.

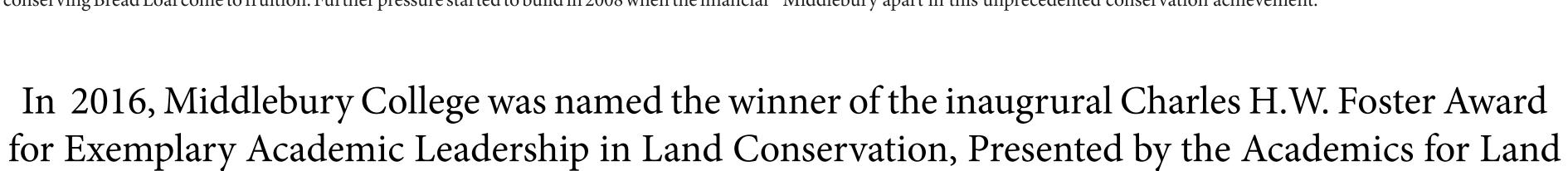
legacy when College President Ron Leibowitz and Vermont Land Trust attorney Rick Peterson off of some of Middlebury's land were considered more seriously. Leibowitz believed that extinsigned a conservation easement conserving Bread Loaf in perpetuity. A conservation project of guishing the development value was a necessary step. Furthermore, raising the money to do it this scope is very much unprecedented among institutions of higher education; to the best of pub- was seen by Leibowitz as a simultaneous solution to cover the mounting costs of maintaining the lic knowledge, never before has a college conserved land with a perpetual conservation on this Bread Loaf campus. Middlebury needed a donor to help offset Bread Loaf's development value. The conservation of Bread Loaf was, to say the least, a very complicated proj- In 2013, Leibowitz looked to alumnus Louis Bacon '79, attending a National Audubon Society

> event where Bacon was awarded the Audubon Medal for Conservation. Bacon's philanthropic legacy in conservation runs deep, granting over 210,000 acres of personal land to protection under conservation easements. Liebowitz approached Bacon at the event, proposing a team effort to help conserve Middlebury's mountain lands.

A multi-faceted land-planning process was conducted to assess the titles, boundaries, and ecological features of Middlebury's many parcels. Middlebury College Professor and conservation ecologist Marc Lapin was hired to conduct a full natural community assessment of the mountain lands to gain a more complete picture of what ought to be conserved and how best to do it; this, in the end, greatly influenced the particular restrictions and guidelines written into today's conservation easement and longterm management plan. Additionally, the financial aspects of such

and how the College may be able to reconcile with potential violations of its terms and mitigate a conservation project were considered. Middlebury, as a non-profit institution, was not entitled the effects of the will's ambiguity. The Board of Trustees made a start at conserving Bread Loaf to substantial tax deductions private land owners would typically receive for conserving 2,100 by approving a resolution in 1999 to protect some of the lands that were intended to be a part of acres of forestland. Middlebury, again, realized a partnership with Bacon as an ideal solution. Ba-Battell Park — a forest preserve of lands surrounding Bread Loaf that Battell stipulated in his will con in the end was able to offset the cost of Middlebury conserving Bread Loaf with the Vermont Land Trust and forfeiting its development rights, by giving a cash gift to the College. Bacon in turn When President Ron Leibowitz became Middlebury's 16th President in 2004, he wanted to would receive the tax benefits of donating to his alma mater. Bacon's generous cash gift ultimately build on the conservation vision of the 1998 Senior Seminar and pursue protection of the Bread helped to pay for half of the assessed development value of Bread Loaf and, with funding from Loaf lands in honor of Battell's intent by extinguishing the land's development value through a his own Moore Charitable Foundation, also establish the Bread Loaf Preservation Fund to help

Surely, the economic challenges of forfeiting development assets in conserving land are not ing that question was perhaps the most challenging and ambitious aspect of making any dream of just unique to Middlebury. Middlebury and its generous benefactor Louis Bacon have helped set



joint effort.

now conserved in perpetuity by the Vermont Land Trust. Pictured here is Ver-

mont's Catamount Trail, which passes through Bread Loaf's woods. Source: Mid-

"We have preserved this land for eduction, for recreation, and for conservation. We love [Bread Loaf] because it emodies the heart and soul of learning in a setting that challenges us and inspires us," Middlebury College President Laurie Patton reflected as she accepted the award at the Harvard Kennedy School in Cambridge, MA on February 22nd, 2016.

How Does the Easment Protect The Many Values of Bread Loaf's Natural Landscape? Complex Conservation in Practice

The Larger Landscape

and surrounding 25,000 acres of forestland to the Col- the easement. lege in 1915, we have today made good on preserving acres of conserved land are today a part of a much Community Approach to Conservation Design larger network of conserved U.S Forest Service lands, for the undisturbed movement of organisms across the State and even the entire Northeast.

Multiple Values and Multiple Purposes

Bread Loaf's Conservation Easement is a legally binding document that states how the Bread Loaf lands must be managed, restricting its uses and providing guidelines for how to fulfill its designated purposes. The College and Vermont Land Trust, in crafting the easement, developed primary and secondary purposes for the lands. The terms of the easement are intended to help protect and fulfill these purposes. There are four primary purposes: (1) protecting the biodiversity and natural features of Bread Loaf, (2) protecting the outdoor recreational opportunities and resources, (3) protecting the features of Bread Loaf that support the educational missions and programs of Middlebury College, and (4) preventing the use or development of Bread Loaf that would adversely affect the above opportunities, resources, and features of the lands. The two secondary purposes are to conserve the scenic open space, and historic and cultural resources of the lands.

The terms of the easement were very deliberately considered in an effort to support the easement's designated purposes. Language governing everything from the Inn and the English School's various buildings to easement.

Battell, who gifted the current lands of Bread Loaf and justified because it fulfills the educational purpose of that greatly shape the Bread Loaf landscape.

in New Englad (ALPINE), for its unprecedented conservation of Bread Loaf.

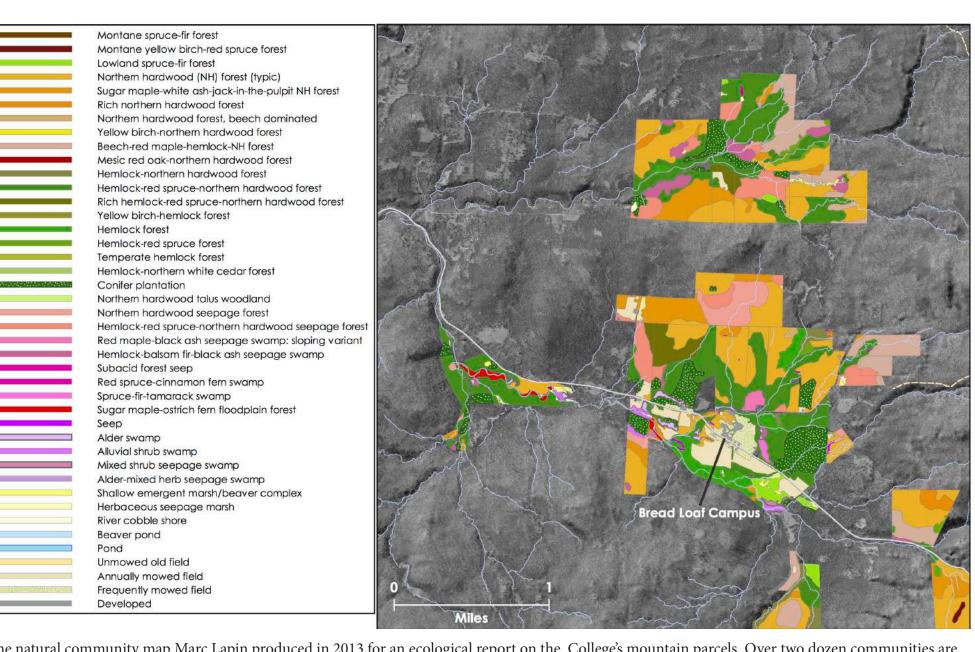
Land Trust. Commercial activates are also mostly for- communities, also known as ecosystems, that compose Seepage Swamp, Shallow Emergent Marsh/Beaver In thinking about how the Bread Loaf conser- bidden under the terms of the easement, so, for exam- the Bread Loaf lands. Involving time-consuming field Complex, Northern Hardwood Seepage Forest, and vation easement fulfills its primary and secondary ple, the College cannot rent out rooms in the Inn to work of walking the lands with a GPS, taking detailed many others. The hemlock seepage forests are perhaps purposes, it is illuminating to first think about Bread the general public for purposes that aren't consistent notes, and processing the data with a GIS, Lapin devel- the most apparent to visitors, when they enter the for-Loaf as a puzzle piece within a much larger conserved with the easement; renting out rooms for the summer oped a fine-scale map of Bread Loaf's plant communi- est on the outskirts of the fields where hemlocks line landscape. Nearly 100 years after the passing of Jospeh Bread Loaf Writers' Conferences or English School is ties, associated soil types, and the hydrologic features the banks of Bread Loaf's mountain brooks. Battell and

Crucial to the protection of Bread Loaf's biodi- this natural community. versity, is first applying a "course filter" approach to this remarkable landscape. Bread Loaf's existing 2,100 Protecting Bread Loaf's Biodiversity — A Natural conservation where underrepresented, rare, and un- of Bread Loaf's forest situated on a mid-elevation placommon plant communities and landscape features teau, where the headwaters of many mountain brooks Bread Loaf is an incredibly rich landscape, repre- are given special protection, with the expectation flow and underground water rises up out of the ground, being surrounded on nearly all sides by federally pro-senting multiple rare and uncommon plant communi-that this helps to conserve the many organisms such making Bread Loaf an exceptionally wet landscape. tected Wilderness Areas — the highest level of federal ties and landscape features. Bread Loaf's lands are not as mammals, amphibians and birds that may inhabit Many of the natural communities, including beaver land protection that makes up our nation's National only critical to protect because of where they are situ- those communities. The easement establishes special ponds, alder-tamarack swamps, and seepage forests, Wilderness Preservation System. The Breadloaf Wil- ated within the larger network of conserved forestland natural communities as "Ecological Protection Zones" were represented in Lapin's inventory because of how derness, Vermont's largest federal Wilderness Area of that surrounds them but also the for the unique bio- or "EPZs." The boundaries marking the EPZs were wet this place is. The wetlands and unique hydrolognearly 25,000 acres, to the north and the 12,336 acre logical, geological, and hydrological features that re- based on Lapin's mapping of plant communities that ic features of Bread Loaf were also protected similar-Joseph Battell Wilderness to the south along the spine side within them. A systematic, scientifically informed are considered "state-significant" in Vermont. EPZs ly to the EPZs. "Surface Water Protection Zones" or of the Green Mountains, situate the College's Bread approach was taken to better understand the natural are afforded very special protections and restrictions "SWPZs" were designated for areas within the 50-foot Loaf lands within a critical habitat patch that allows history of Bread Loaf and develop strategic plans to under the easement, including the prohibition of for-vicinity of perennial streams, ponds, vernal pools,

Brandy Brook ski trails pass through good examples of

The inventory helped reveal the unique character and wetlands. SWPZs in Bread Loaf have the goal of protecting water quality, aquatic systems, and the organisms that inhabit them by requiring the use of all applicable management practices and erosion control devices when conducting activities like maintaining roads or trails. Like with EPZs, trying to do something as simple as maintaining a bridge at a stream crossing could become complicated if it falls within the boundaries of a SWPZ.

The biological inventorying of Bread Loaf and the special EPZs and SWPZs are examples of the way conservation is done today, using the modern-day technology of GIS analysis and long-term ecological planning. Effective, cutting-edge conservation involves making scientifically-informed decisions when crafting a conservation easement. Middlebury College is a leader in the field of conservation, as the first institution of higher education to approach a large-scale conservation project in such way, granting a conservation easement and conducting research for how to best manage and protect these mountain lands. Bread Loaf is an example of a conservation project that will endure through time. Now that the we have applied the course filter approacch of protecting the significant natural communities of Bread Loaf, there is room in the future to conduct more "fine filter" data collection how garbage and septic systems ought to be handled in protect it. Science has greatly informed the restrictions estry and construction of new roads or trails and the on individual organisms such as the mammals, am-



The natural community map Marc Lapin produced in 2013 for an ecological report on the College's mountain parcels. Over two dozen communities are represented in the biologically rich Bread Loaf Lands. Detailed here are also Bread Loaf's many mountain brooks that flow through these communities, exemplifying how exceptionally wet this landscape is.

pus Zones require prior permission from the Vermont tory of Bread Loaf was largely based around the natural communities include Hemlock-Balsam Fir-Black Ash

the specially designated "Campus Zones" that compose and conservation planning guidelines written in the requirement that activities within these zones involve phibians, and birds that inhabit these biologically rich special steps to retain the natural character, such as natural communities so we can be sure we are protectthe type of forestry practices allowed on certain parts In 2009, just as serious conversations about the con- the soil integrity and species composition, that define ing everything that calls the Bread Loaf lands home. of the Bread Loaf forest to the use of snowmaking for servation of Bread Loaf were heating up, the College's them. Something as simple as building a bridge could As a conserved area, Bread Loaf presents Middlebury Rikert are examples of how carefully this easement was Land Committee hired conservation ecologist and become complicated by the easement's terms if it is be- College with numerous opportunities for research and crafted to meet the needs of the College and fulfill the Middlebury environmental studies professor Marc ing done within an EPZ. 15 areas within Bread Loaf education into the future. goal of protecting Bread Loaf's natural character. Cer- Lapin and student interns to conduct a biological in- are EPZs and state-significant communities, accounttain activities such as new construction in the Cam- ventory of all the college's land holdings. Lapin's inven- ing for nearly 40% of the total area of Bread Loaf. These

• Michels, Katie. 2017. The Bread Loaf Conservation Project. Special essay project commissioned by the Middlebury College Dean of Environmental Affairs Nan Jenks-Jay. Marc Lapin, College Lands Ecologist, for his expertise on Bread Loaf's ecology and conservation planning.