

Montshire News

MONTSHIRE OUTREACH

Science Education: Thinking Outside the Box



Inside the Museum’s walls and outside in the community, we’re creating opportunities to engage different audiences in science. Here are a few examples of our latest “out of the box” thinking:

Pop-Up Science Program

The Montshire has a long history of bringing innovative science experiences to the greater community through its outreach programs. *Pop-Up Science* offers a new twist. We are extending our ability to reach new audiences—providing exciting hands-on science to people of all ages well beyond our Norwich location.

The pop-up tent creates a fun, informal hands-on science experience that goes on the road throughout Vermont and New Hampshire. We’re popping up at summer festivals including Derby Line on the Canadian border, the

Champlain Mini Maker’s Faire, and school open-house events. Programming offered under the tent leverages what we have learned in recent years through our Teen Tinkering Program and our NIH-funded health science education initiative.

Montshire Unleashed

An adult-only program, Montshire Unleashed provides grownup visitors the opportunity to unleash their inner child and celebrate those “a-ha” moments in the Museum. The Friday night events allow adults from the Upper Valley to engage with science and participate in fun, hands-on activities with other members of the community. Offered select Friday nights.

Climate Comics

Produced in collaboration with cartoonist Sam Carbaugh and

scientists and engineers at the U.S. Army Corp of Engineers Cold Regions Research and Engineering Laboratory, Climate Comics is a five-part comic series introducing readers to climate researchers and climate science in a fun and artistic way. Conceived as a way to present a complex topic in a new and easily approachable manner, Climate Comics engages readers of all ages. Climate Comics provide science learning in a portable form that can be savored for its wonderful illustrations as well as its scientific information. The Climate Comics Series, included with certain VisitPlus workshops, will also be available at the Museum Store.



Montshire programs are designed to provide meaningful and fun learning experiences—at your home, in your community and here at the Museum. Join us!



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Dear Friends,

One of the reasons I'm so engaged with the Montshire is that the Museum is a vital resource for our whole region.

Recently I met a woman from Waterville Valley, New Hampshire. When I mentioned that I live in Norwich, she said, "You mean where the Montshire is?" I found myself bursting with pride. "Yes," I said, "I'm a huge fan of the Montshire!" She told me that she'd brought her 6-year-old granddaughter here over the summer and raved about the fun they had together. Science Park was, not surprisingly, a highlight. At her granddaughter's urging, they're now planning a return visit with additional members of the family.

More and more people are discovering the Montshire every day, and our members visit more often than ever before. Whether you're new to the Museum, or you can count your visits by the dozens, I hope you'll come again soon (with or without children in tow!). We look forward to hearing your stories of inspiration and discovery.

With many thanks for your support,

Cenny Bensen
Chair, Board of Trustees

UPCOMING EXHIBITIONS

Sustainable Shelter and Energy Conservation



Sustainable Shelter: Dwelling Within the Forces of Nature
February 1 – May 26, 2014

What can we learn from nature to make our dwellings more sustainable parts of the Earth's natural systems?

Shelter is a universal human need—a need we share with other living things. Since buildings consume lots of resources and almost half of all the energy used in the United States, it's important that we make them more efficient. Just as birds select and gather materials from their local environments to fashion safe and nurturing nests, humans build homes that use natural resources to meet a vast array of our needs and desires. *Sustainable Shelter* investigates the ways that human dwellings extract, use, and discard energy, water, and other precious natural resources. The exhibit reveals innovative new building technologies and strategies that can help restore the health and viability of natural cycles.

This exhibition introduces visitors to the *functions of shelters*, and how animals and humans have adapted to differing environments through an amazing diversity of structures.



The Montshire continues to invest in reducing our impact on the environment.

While many of the efforts are not glamorous or visible, the results are impressive. Over the past several years we have changed most of our lighting to LED bulbs, replaced pumps and fans, upgraded our heating and cooling systems, and installed a building management system that optimizes efficiency while maintaining ideal comfort levels for visitors.



Calling all Kids

(and adults who like to take their toys apart!)

Toys: The Inside Story
December 7, 2013–January 19, 2014

This exhibition lets you peek inside some well-known toys while exploring the mechanisms that make them work. View a dissected Etch-A-Sketch® and trace patterns on a giant version of the toy at one of the 12 hands-on stations. Learn about gears, pulleys, linkages, and other mechanisms, and then see them in use.

LEADERSHIP AND GOVERNANCE

The following people were elected as new members of the Montshire Corporation at the annual meeting held Thursday, September 12, 2013.

- Elizabeth Adams, Norwich, VT
- Erik Anderson, Hanover, NH
- Gail Gentes, Hanover, NH
- Amy Gladfelter, Norwich, VT
- Susan Goodell, Newbury, VT
- Joseph Helble, Norwich, VT
- Ann Malenka, Etna, NH
- Vicki May, Lyme, NH
- Jim Miller, Quechee, VT
- James Smith, Concord, MA
- Doug Williamson, Hanover, NH
- Mundy Wilson Piper, Etna, NH

Members of the Corporation provide strategic direction to the Montshire and serve an especially important role in shaping the Museum's future by selecting, from among the members, our Board of Trustees. The following were elected to the Board of Trustees:

- Justine Fahey, Norwich, VT
- Frank Leibly, Taftsville, VT

Officers of the Corporation were elected as follows:

- Lu Martin, Hanover, NH
Corporation President
- Ray Sears, Grantham, NH
Corporation Vice President

At the Board of Trustees meeting held on May 20, 2013, the following officers to the Board were elected:

- Cinny Bensen, Chair
- Philip McCaull, Vice Chair
- David Otto, Treasurer
- Margaret Rightmire, Secretary

NEW TRUSTEES

Justine Fahey

Justine has lived in the Upper Valley off and on since 1990. She has been involved with the Museum since 2001, both on the Montshire Fund Committee and with the annual auction. She has been a member of the Steering Committee of the Montshire Auction for the past five years, including co-chairing the event for three years, serving as Reservations Chair and helping with acquisitions.



She earned a BA at Dartmouth College in Psychology and received an MBA from The Tuck School of Business. Prior to moving to the Upper Valley, she worked for various Internet technology companies in the Boston area in marketing and business development.

Currently, Justine is a yoga teacher at Upper Valley Yoga in White River Junction. She is involved in various areas of the community, including volunteering at her children's schools and as a coach for Girls on the Run Vermont. She lives in Norwich with her husband, three children and various pets. Her children have been involved with the Museum's preschool program and summer camps and consider the Montshire to be an invaluable part of their lives.

Frank Leibly

Frank Leibly is a successful entrepreneur and investor, with a background in Internet software and e-commerce. Frank is currently a partner at private equity advisor Alcon Partners, and a member of the Board of Directors of Mascoma Savings Bank.



Frank grew up in Washington State, coming east to attend MIT, where he received his bachelor's and master's degrees in Electrical Engineering and Computer Science in 1994. While in school, Frank and several classmates founded New Frontiers Information Corporation, a provider of software and related services for Internet publishing and e-commerce. They later sold the company to Banta Corporation, which was subsequently acquired by RR Donnelly.

Frank moved to Woodstock, Vermont, in 2001, where he lives with his wife and two children, who are Montshire enthusiasts. Since moving to Vermont, Frank started Internet video gaming firm StarROMs, Inc. and became an investor and a member of Granite State Angels. He has also served on the boards of the Woodstock Rotary Club and the Woodstock Recre-

ation Center, and is currently a Director and Treasurer for Woodstock Associates.

HAZEN TRAIL

Over the last few years, the Museum has worked with nearby landowners Dartmouth College, and the Child Care Center in Norwich along with the Norwich Conservation Commission, to improve public access to the Hazen Trail. Members of the Norwich Conservation Commission developed a new trail section, and the town of Norwich created a small parking area on the upper section of Montshire Road near the new trailhead.

The planets Uranus, Neptune, and planetoid Pluto on the Montshire's Planet Walk will still be found on the Hazen Trail to the south of the Ridge Trail.

The new trail is open to the public. Use of other trails on Montshire property requires a Museum admission sticker.

ACCESSIBLE PATHS

The paths from the terrace to the Hughes Pavilion, adjacent restrooms, and *Animal Tracks Kiosk* have a new look and feel, especially for those using a wheelchair or stroller. The new water-permeable surface is made from a specialized material designed to withstand the Vermont weather, be visually appealing, and provide a smooth surface for wheelchairs and strollers.



Give a Gift of Montshire this Holiday Season!

Montshire Gift Guide

- ✓ Gift Memberships
- ✓ Museum Store Gift Certificates
- ✓ Admission Passbooks
- ✓ Gifts in Honor/Tribute

www.montshire.org/membership or at the Museum

CELEBRATE YOUR MONTSHIRE MEMBERSHIP!

Present this coupon with your membership card for a special

ONE-TIME 20% SAVINGS
on any purchase from the Montshire Museum Store.

Offer good through December 24, 2013.
Your purchase supports the Montshire Museum and its educational programs.



Dear Friends,

On behalf of the Montshire Fund Committee, I'd like to thank you for believing in the educational mission of the Museum. Together we raised nearly \$220,000 to support virtually every facet of the Museum's operations.

Those of you on our Honor Roll deserve special thanks. We established this program last year to recognize long-time supporters. It is amazing to see the number of people who continue to give, year after year. Names followed by ♦ have been giving to the Museum for at least 10 consecutive years, and those followed by ● have been giving for five or more.

As the new Chair of the Montshire Fund Committee, I'd like to thank the volunteers who spend countless hours reaching out to the community on the Museum's behalf, especially Canny Bensen, who led these efforts for the past three years. We do this work knowing how generous and valuable our contributors are.

Justine Fahey

Justine Fahey
Chair, The Montshire Fund

Friends of the Montshire Museum

River Society

\$2,500+



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SAVE
THE DATE
Montshire
Auction
May 2, 2014

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Barbara Palmer and Kristin Parker

Montshire Corporate Associates (MCA)

Many local companies choose to become members of the Montshire Corporate Associates program. MCA members support the Montshire and receive a variety of benefits including opportunities for their employees to visit the Museum, facility rental discounts, and public recognition. A full list of benefits can be found at www.montshire.org/mca.

The Montshire is grateful to the following businesses, which held a membership in the Montshire Corporate Associates during 2012/2013:

- | | |
|-----------------------------------|--------------------------------------|
| Adimab | Kendal at Hanover |
| Advance Transit | King Arthur Flour Company |
| Alice Peck Day Memorial Hospital | Lake Morey Resort |
| Allan's Vending Service, LLC | Lake Sunapee Bank |
| ARC Mechanical Contractors, Inc. | Lang McLaughry Real Estate |
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Future Science Leaders

Rachel Sargent: When I was a young girl, few outings were more exciting than a visit to the Montshire. On weekends, I pestered my parents into the hour-plus drive to attend the Museum. Some of my first experiences with basic science concepts are from iconic Montshire exhibits: how bubbles behave, paper helicopter aerodynamics, and the scale of space. By the time I was six, I knew I wanted to study science—these early experience with informal science had a profound effect. I went on to major in Biology, ultimately working as a lab technician on real cutting-edge science in botany, marine biology, and neurobiology.

Along the way, I discovered the importance of sharing the excitement of inquiry-based science and began to do more museum education until I ended up where I had started—at the Montshire, but this time as a summer explainer.

I know from personal and first-hand experiences why informal science education and museums like the Montshire are so valuable.



Warm Welcome Program

Our Warm Welcome program is an ongoing commitment of the staff and Board of Trustees, and we expect to have several new improvements in place in early 2014. Thank you for your support and interest as we work to support the needs and desires of our community. For more information, or to provide feedback and suggestions, please email jennifer.rickards@montshire.org.

- 111** human service agencies received free admission passes.
- 3,606** of their clients visited the Museum for free.
- 43** children received Summer Camp and program scholarships, valued at nearly \$10,000.
- 16** other nonprofit organizations were provided a free meeting space for their public programs, which served 1,012 community members.
- 30** school groups with 1,240 visitors came to the Museum for just \$1/student.

- Henry and Pauline Parker ●
- Alpa and Bharat Patel
- PathWays
- Barbara and Henry Payson ◆
- Donald and Abbie Penfield
- Maggie and John Pepper ●
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- Rebecca and Spencer Zaha
- Winnifred Y. Zappala ◆

Friends

Gifts above or instead of an annual membership, \$35+

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- David and Laurie Albert
- Huntly and Ginia Allison ◆
- American TESOL Institute, USA
- Elizabeth Jean Anderson and Bob Stevens
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- Peter Hoyle Armstrong
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- Fran and Bill Baschnagel ◆
- Mark and Laura Beliveau
- John and Betty Berlenbach
- Jeffrey Boffa and Michele Campbell
- David and Ann Bradley
- Mark Borsuk and Amy Gladfelter
- Paul Butler and Laura Goding
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- Arnold Castagner ◆
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- Arthur Gardiner and Robin Nuse
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- Jennifer and Michael Greene
- A. Stewart and Elizabeth Gurr
- Sandy Harris and Beth Krusi
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- Carole and Rebecca Heyl
- Amy and Paul Hoffman
- Jeannette Hsu and Todd McSweeney
- Patricia Huston, in honor of Kevin Lane Keller
- Alexandra and Rogers Johnson
- Sara and Ronald Kobylenski
- Heidi Lang Moran
- Jennie LeGates and Fritz Wehrenberg
- Rick Marshall and Lynn Webster
- Sarah Miles and Kevin McCurdy
- David and Joyce Milne
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- Beth Phinney and Bob Raiselis
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- Mr. and Mrs. Robert C. Pomeroy
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- Donald and Eunice Quinn
- David and Sarah Roberts, in honor of Richard Stearns
- Susan Ross
- Eric Schaller and Paulette Werger
- Richard and Margaret Schwartz, in memory of Andrew Mortimer ◆
- Rosemarie and Lou Scibetta
- Susan E. Sciora
- The Simpson Family
- Mark and Donna Sisitsky
- Hilda and Robert Sokol
- Gray Soper and Mitsuko Tanaka

Scott E. Stearns
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 Ann Summer, in honor of Nancy Charkes
 Shiela and Steve Swett ♦
 Marcus and Leslie Tarkington ♦
 Anthony and Barrett Thacher
 Charlie and Nancy Trautmann ●
 Stanley and Lee Udy ♦
 Jean and Gary Ulman
 Alice and Brad Williams
 E.G. and Karen Woods
 Roderic and Gretchen Young

*deceased

- 5-Year Honor Roll
- ♦ 10-Year Honor Roll

Corporate Donors to the Montshire

Corporate Exhibit, Program, and Event Sponsors

These companies supported the Museum through sponsorships to underwrite a variety of exhibits, programs, and events, including the annual auction, in 2012–2013:

Allan's Vending Service, LLC
 The BaySon Company
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 Coldwell Banker – Redpath & Co.
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 Von Borgen's Jewelry
 Wells Fargo Advisors, LLC
 White Mountains Insurance Group

Matching Gift Companies

The following companies contributed matching gifts on behalf of their employees who are Montshire members and donors:

The Coca-Cola Foundation
 Deutsche Bank
 Goldman, Sachs & Co.
 Goodrich Corporation
 Green Mountain Coffee Roasters
 IBM Corporation
 Lumina Foundation for Education
 Mascoma Savings Bank
 Pfizer Foundation
 The Timken Fund

In-Kind Gifts

The Montshire is grateful to the following donors who contributed tangible gifts and services to the Montshire in 2012–2013:

Co-op Food Stores
 Long Wind Farm
 New England Research, Inc.
 Michelle Ollie, Center for Cartoon Studies
 Dr. Joseph and Jane Stevens

The Montshire Auction

On Friday, May 3, 2013, the Museum enjoyed its annual auction with the theme "Fiddlehead Fling." The Montshire is grateful to more than 40 volunteers who worked many months on the event, the 274 donors who generously contributed items and services, our 29 civic-minded corporate sponsors, and the 358 guests who attended and placed bids enthusiastically. Proceeds from this important event support education programs for students and teachers throughout Vermont and New Hampshire. All of the auction items, donors, volunteers, and corporate sponsors were recognized in the auction catalog. Thanks again to you all!

Legacy and Memorial Gifts

The Montshire Legacy Circle: Creating a Legacy for Montshire's Future

The following donors have informed the Montshire that they have included the Museum in their estate plans through a bequest, bequest intention, trust, retirement plan, life insurance policy, or life income gift. These donors are members of the Montshire Legacy Circle and are recognized for their desire to care for the Museum into the future. Planned gifts are typically included in the Museum's endowment to help the Montshire provide excellence in programming and exhibitions in perpetuity.

Anonymous (3)
 James and Jane Barrett
 Barbara Blough
 Lisa Cashdan and Peter Stein
 Arnold Castagner
 Marcy Chong and Alden Hall
 Nancy S. Dwight
 David Goudy
 Hugh Hermann
 Bin Lewis *
 Terese Lyons Lane*
 Peter and Lu Martin
 Carolyn and Peter Mertz
 David and Mary Otto
 Walter Paine and Barbara Moyer
 Robert and Elizabeth Porter
 Allie Quinn



Growing Up Montshire



Fiona Sweeney: Montshire Museum has been a part of my life for as long as I can remember. When I was really young, going to the Montshire was always the special treat for my sister and me. As my interests changed with age I noticed different exhibits, but "Gears at Play" really revolutionized my understanding of how the world works. As a young dancer, the initial attraction for me was a ballerina doll spinning atop one of the gears, but upon closer inspection I was fascinated by how the gears work together. This idea of connection had never really occurred to me before, and I started to think about how this system might be used in other situations.

Now, I really enjoy the teen tinkering nights. If you are in middle school I highly recommend coming. It gives me the freedom to challenge myself, and to do the projects my parents won't let me do at home.

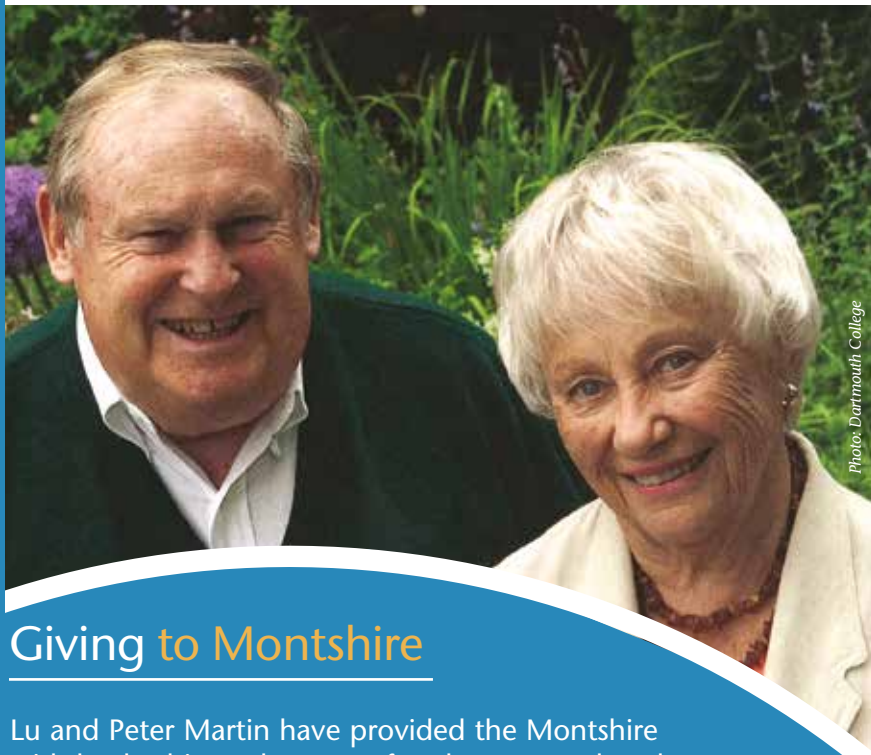
My most recent exploration with the Montshire was helping at Montshire's booth during the Champlain Valley Mini Maker Faire. I got the chance to learn how to teach others what I've learned over the years.



Milo James Wilcox: The first time that I came to the Montshire I knew immediately that I wanted to be an engineer. The Montshire became my centerpiece until about 5th grade, when I began to regard the museum as childish. How wrong I was! About a year ago I began to regain my interest in tinkering and engineering with the teen tinkering nights. I had so much fun with friends who also turned up, that I could not wait until the next one. I was asked to help at the Montshire booth at the Champlain Maker Faire in October. We showed kids how to create ScribbleBots, and helped them make flying contraptions for the wind tunnel. It was fun sharing my enthusiasm for science and engineering—an excellent day!

Participation

- 147,773 visitors came to the Montshire.
- 3,284 Montshire members (as of September 30, 2013)
- 7,058 people participated in Montshire programs.
- 20,024 school children from 288 schools in Vermont, New Hampshire, Massachusetts, and New York visited the Museum.
- 3,850 students participated in one-hour science workshops led by Montshire's professional science educators.
- 503 youngsters participated in Montshire Summer Camp programs.
- 664 people spent the night at the Museum as part of the Montshire Camp-in program.



Giving to Montshire

Lu and Peter Martin have provided the Montshire with leadership and support for almost two decades. "Peter and I know that the Montshire is truly a community treasure for us, our children, our grandchildren, and everyone in the Upper Valley," said Lu, who chaired the Board of Trustees from 2003 to 2005. "Since it is one of the few museums in the country not to receive any state or federal support for its operations, we have made giving to the Montshire a top priority."

The Martins took advantage of a special opportunity to leverage their gift this year. Through the end of 2013, individuals who are 70 1/2 or older can make a direct transfer ("rollover") to the Montshire or another charitable organization from their Individual Retirement Account (IRA). The amount of the gift is excluded from taxable income, and may be used to satisfy a minimum distribution requirement.

"Because 2013 is the last year the federal law allows it, we designated the Montshire to receive part of our IRA-mandated distribution and avoided all federal taxes on it. A no-brainer for us!" said Lu.

For more information, call the Montshire's development office at 802-649-2200, ext. 225, or contact your IRA plan administrator.

Jennifer Rickards and Jona Roberts
Bob and Nancy Rosenblum
Anne S. Segal
Peter and Anne Silberfarb
Peter Stettenheim*
Joseph C. Stevens
Jenny and Stan Williams

If you have left the Montshire a provision of any kind in your estate plan and would like to be recognized for your generosity, please contact the Development Office for a confidential conversation at 802-649-2200, ext. 225.

Memorial Gifts

In Memory of Julia Fifield
Martha Clark
David and Joyce Milne
William and Margaret Montgomery
Eleanor Stephenson

In Memory of Bin Lewis
Carol Caswell
Amy and Paul Hoffman
Alexandra and Rogers Johnson
Sara and Ronald Kobylenski
Rosemarie and Lou Scibetta

In Memory of Brian Quinn
Paul Butler and Laura Goding
Diane Crowley and George Hano
Val and Melissa Galton
Connie Helfat
Mark and Susan Israel
Jennie LeGates and
Fritz Wehrenberg
Robert and Nita Norman
Donald and Eunice Quinn
Gray Soper and Mitsuko Tanaka

In Memory of Peter Stettenheim
Carla Dove and Marcy Heacker
Sarah and Bruce Schwaegler

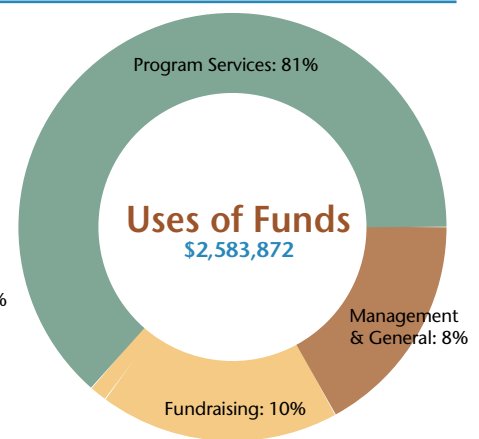
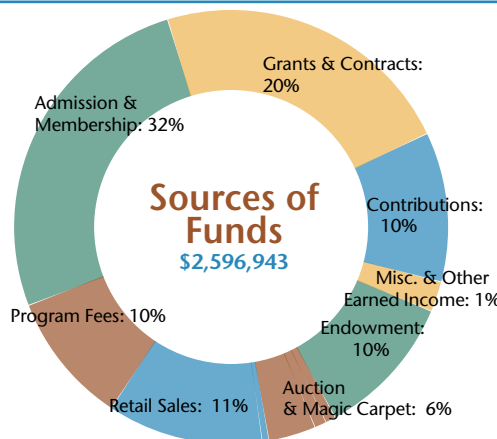
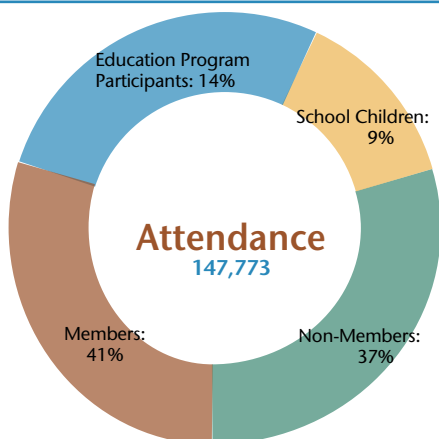
In Memory of John Thayer Weeks
Susan Ross
The Simpson Family

Donors listed in this Annual Report reflect gifts received between October 1, 2012, and September 30, 2013. We work hard to carefully review and proofread our lists and apologize if names are inadvertently omitted or misspelled. If there is an error, please contact the Montshire Development Office at 802-649-2200.

Gifts to Support Special Initiatives

These donors supported a variety of Montshire programs in 2012-2013, including the Montshire Endowment:

- Argosy Foundation: Teen Tinkering Programs
- The Couch Family Foundation: School Partnership Initiative
- The Donley Foundation: School Partnership Initiative
- Andree Wildenstein Dormeuil & Roger Dormeuil Foundation: Unrestricted Grant
- The Lane & Elizabeth C. Dwinell Charitable Trust: Warm Welcome Program
- Hanover Garden Club: Warm Welcome Program
- Windsor and Marilyn Hunter: Windsor and Marilyn Hunter Endowment for School Partnerships
- Hypertherm HOPE Foundation: School Partnership Initiative and Lab Coat Investigations
- Kevin Lane Keller and Punam Keller: Keller Family Fund for Special Needs
- The Kettering Family Philanthropies: School Partnership Initiative
- The Agnes M. Lindsay Trust: Warm Welcome Program
- General William Mayer Foundation: "Frog Eyes" exhibit
- Bowen H. and Janice Arthur McCoy Charitable Foundation: Enhancing Montshire's 100 Acres
- NASA: The Dynamic Earth
- National Institutes of Health: Connecting Classrooms and Community with the Health Sciences
- National Life Group Foundation: Warm Welcome Program
- National Science Foundation, through Dartmouth College: Plant Biology, Plant Genetics
- National Science Foundation, through New England Wild Flower Society: "Go Botany"
- New Hampshire Charitable Foundation: Exhibit Design
- Robert and Nita Norman: Unrestricted Grant
- Gregory and Toni Prince: Rieser Internship Fund
- U.S. Army Cold Regions Research and Engineering Laboratory: Engineering Programs
- U.S. Department of Agriculture, Wildlife Habitat Incentive Program: Invasive Plants removal
- Sharon Hughes Young: Staff Development Fund



These charts illustrate major sources and uses of funds comprising the Montshire's operating budget for the fiscal year that ended 9/30/13. This information is taken from our preliminary year-end financial report. Copies of our completed financial statements, prepared by our auditors, Tyler, Simms & St. Sauveur, P.C., will be available soon. Please contact the Development Office at the Museum to request a copy.



In Memorium

Ryland Stout: When on October 22, 2012, three-year old Ryland Stout of Woodstock, VT, passed away of a rare terminal brain tumor the community gathered together in support of the Stout family. Blakeley Murrell-Liland, a local community member, knew Ryland loved visiting the Montshire Museum of Science and wanted to commemorate and honor him here at the Museum. A Montshire Marker with Ryland's name seemed like a perfect fit. Markers are 6x8 inch bricks that are located in the Museum's entry terrace. Murrell-Liland reached out to other community members and a total of eight people donated money to have a Montshire Marker engraved for Ryland Stout. "We are very touched and amazed by the outpouring," said Jessica Horak, Ryland's mother. Montshire Marker contributions support the Museum's exhibits and programs that serve families throughout Vermont and New Hampshire.

The following people made donations to have a Montshire Marker engraved with Ryland Stout's name.



Tracey Dugdale
Zuri Farlow
Ann Jones
Jen Minotti

Blakeley Murrell-Liland
Jenny Shaw
Kathy Sorrentino
Bonnie Underwood

Montshire Trustee and Committee Volunteers 2012-2013

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Jay Bensen
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Brian Doyle
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Mariruth Galbraith
Mike Gerling
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Kevin Lane Keller
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Stephanie McCaull
Carolyn Mertz
Walter Paine
Allie Quinn
Margaret Rightmire
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Dan DeMars
Bill Giles
Maggie Montgomery, *Co-Chair*
Ray Sears, *Chair through March 2013*
Martin Smith
Joan Wilson

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Leeli Bonney
Jennifer Brown
Justine Fahey
Lu Martin
Mary Otto
Laura Perras
Margaret Rightmire
Audrey Sears
Ray Sears
Fred Wainwright

Magic Carpet

Martha Clark, *Co-Chair*
Ann Davis, *Co-Chair*
And dozens of dedicated colleagues.

Corporate Relations Co-Chairs

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Steve Voigt

Auction Steering Committee

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Deb Ashton
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Keri Craft
Gina des Cognets
Karen DuBois, *Co-Chair*
Justine Fahey
Mariruth Galbraith, *Co-Chair*
Mimi Lichtenstein
Stephanie McCaull
Sarah Miles
Adrienne Peraza
Alicia Przydzielski
Megan Rudy
Maribel Souther

Your Gifts At Work

\$50

FREE ADMISSION PER FAMILY IN NEED

A T. REX NAMED SUE
EXHIBITION LEASING FEE

\$60

NIGHT WALK WORKSHOP

\$210

AVERAGE CAMP SCHOLARSHIP

\$110

COMPLIMENTARY MEMBERSHIP

\$1000

INTERN STIPEND

\$12,708

SCIENCE PARK BENCHES

\$4

CRICKETS
(FROG FOOD)

\$7

DRY ICE

\$1,372

LIFE IN SHALLOW WATER
EXHIBIT MATERIALS

\$73 SAWS FOR IGLOO BUILD

\$6.42

PER VISIT

EXPENSES NOT COVERED BY ADMISSION FEE.

FOR CHILDREN

Young Scientist Program

■ **Session 3**

January 8–February 12 (6 weeks)
Members \$170, non-members \$185

■ **Session 4**

March 5–April 9 (6 weeks)
Members \$170, non-members \$185

■ **Session 5**

April 23–May 14 (4 weeks)
Members \$115, non-members \$125

This weekly program includes hands-on experiments, fun projects, and individual explorations in the physical and natural sciences. Designed to engage and excite preschoolers ages 4+ and kindergartners about science.

Flying Marshmallows

Monday, January 20

10 a.m.–noon *

Starting with a series of experiments you'll discover the characteristics of air and the principles of air pressure. Then, using these principles, you'll build your own air-powered, mini-marshmallow shooter. Limit 12.

For children in grades K-3.
Members \$35, non-members \$40

Kitchen Science

Monday, January 20

1–3 p.m. *

We are opening our kitchen cupboards and pulling out a variety of sticky and slimy experiments. Get a chance to explore some biology and chemistry as we experiment with a variety of concoctions. Limit 12.

For children in grades K-3.
Members \$35, non-members \$40

*A supervised lunch period will be available for children who sign up for both the morning and afternoon programs.

February Vacation Week Programs

■ **Tinkering Lab: Open Studio for Makers**

Monday, February 17

11 a.m.–2 p.m.

With some new skills and creativity, build something exciting! Purchase a kit and use our tools and supplies for an in-depth experience in creative tinkering. Participants younger than 9 will need a parent or caregiver.

Free with Museum Admission, plus \$5 for kit.



■ **Science Snow Day**

Tuesday, February 18

9 a.m.–3 p.m.

Come prepared for some cool science activities inside and out. We'll explore the amazing characteristics of ice and snow and learn about the melting and freezing cycles. Then, we'll experiment with snow's structural properties as we build snow arches and other structures. Limit 12.

For children in grades 3–5.
Members \$70, non-members \$80

■ **Winter Wildlife**

Thursday, February 20

9 a.m.–2 p.m.

Spend a winter day learning how to identify animal tracks, scat, and other animal signs. In the classroom we will learn about New England wildlife. Then we'll head outside and explore the Montshire's forests, fields, and trails. Limit 12.

For children in grades K-2.
Members \$70, non-members \$80

■ **Stop Motion Animation**

Friday, February 21

9 a.m.–3 p.m.

Spend the day trying out different techniques using stop motion animation to tell stories, create special effects, and express unique points of view. We'll use iPads during the workshop and conclude with a presentation.

For students in grades 5-8.
Members \$70, non-members \$80

Homeschoolers Series

■ **Electricity and Magnets**

Mondays, January 6, 13 & 27

Ages 6–8, 10:30 a.m.–noon

Ages 9–12, 1–2:30 p.m.

In this three-part series we will experiment with magnets and electromagnets, and build basic circuits with motors, bulbs, and batteries to explore electricity. Limit 14.

Members \$70, non-members \$77

■ **Natural Explorations**

Thursdays, May 1, 8 & 15

Ages 6–8, 10:30 a.m.–noon

Ages 9–12, 1–2:30 p.m.

In this three-part series we'll explore insects, plants, and natural processes such as decomposition and energy cycles. The class includes both indoor and outdoor explorations, observations, and investigations. We'll use several types of microscopes and other tools to observe our world up close. Limit 14.

Members \$70, non-members \$77

Friday Nights for Teen Tinkerers

Fridays, January 31, February 28,

March 21, 6:30–8 p.m.

The tinkering studio for teens is open! Design, create, and build something cool. Each month, we'll explore a different topic. Pre-registration is encouraged, but drop-ins are welcome.

For youth in grades 6–9.
Members \$14, non-members \$16

FOR FAMILIES

Books and Beyond! Science for Preschoolers

Mondays, December 16, January 6, February 3, March 3, April 7
10:15 a.m. or 11:30 a.m.

This popular program combines children's literature and hands-on activities for fun science learning and exploration. Each day features a different book and related science activity.

For children ages 3–5 and their parents or caregivers.
Free with Museum admission

Machine Madness Pre-build

Sunday, December 1

10 a.m.–3 p.m.

Need some motivation or inspiration? Bring the beginnings of your machine to the Machine Madness pre-build. Machine Madness director Mike Fenzel will assist in bringing your ideas to life!

Free with Museum admission.

Machine Madness

Saturday, December 7

1–3 p.m.

Machine Madness is a fantastic family engineering event open to people of all ages and mechanical abilities. We will link our homebuilt contraptions to other machines and create one incredible chain reaction! Find building guidelines at www.montshire.org.

Free Museum admission for families who pre-register their machines.

BYOBox

Monday, December 30, 1–4 p.m.

Bring the biggest cardboard box you have, or use one of ours, and create an arcade game straight out of your imagination. Make a pinball console, build your own Skee-Ball, or invent something completely new. Share your game and play other people's games in the afternoon extravaganza. We'll provide materials, and engineering assistance. For inspiration, visit Caine's Arcade on YouTube.

Free with Museum admission.

Pre-registration required for fee-based programs. Register online at www.montshire.org/programs.html



Earth & Sky Day

Saturday, January 25
10:30 a.m.–5 p.m.

Celebrate the wonders of the Earth and our place in the universe with activities throughout the day. Learn about tonight's sky and investigate large-scale processes driving our planet's systems.
Free with Museum admission

Igloo Build

Saturday, February 15
10:30 a.m.–2 p.m.

Learn how to build a simple, yet elegant igloo and other snow dwellings with expert Dr. Bert Yankielun. Demonstration begins at 10:30 a.m. and building takes place until 2 p.m.
Free with Museum admission

Homeschoolers' Day: Earth Science

Friday, March 21, 10 a.m.–3 p.m.
Explore Earth science and processes including geology, weather, and forces of erosion.
Free with Museum admission.

Take Apart Day

Saturday, March 29
1–4 p.m.

Ever wonder what's inside the household appliances you use every day? Join us and explore the "guts" of VCRs, toasters, cameras, and toys.
Free with Museum admission.

FOR ADULTS

Montshire Unleashed: An Evening for Adults

Fridays, January 17, April 4
6–9 p.m.

Allow your inner curiosity to run wild! The Montshire is open after hours for adults of all ages (21+). Pull up a stool at the Science Discovery Lab for some amazing activities or simply explore the Museum's visiting and permanent exhibits on your own. Jasper Murdock Ale and wine from the Norwich Inn will be available for purchase.
Free with Museum admission.



For Teachers

Professional Development Opportunities

- **Microscopes in Your Classroom**—Tuesday, December 10
- **Experimental Design and Using Evidence: The Next Generation Science Standards in the K-3 Classroom**—Thursday, January 9
- **Experimental Design and Using Evidence: The Next Generation Science Standards in the 4-6 Classroom**—Friday, January 10
- **Engineering in the Science Curriculum: Understanding the Next Generation Science Standards**—Tuesday, February 4
- **Hands-on Lessons for Teaching Heredity and Natural Selection**—Thursday, March 6
- **Cells**—Tuesday, March 25
- **Teaching Life Cycles, Habitats, and Seasonal Change with Insects and Amphibians**—Tuesday, April 8

For more information and to register online visit: <http://montshire.org/for-teachers/>

DECEMBER

- 1 Machine Madness Pre-build **F**
- 7 *Toys: The Inside Story*, exhibition opens
- 7 Machine Madness **F**
- 9 Magic Carpet Program, Hiking the Cotswolds **A**
- 16 Books and Beyond! Science for Preschoolers **F**
- 24 Museum closes at 2 p.m.
- 25 Closed for Christmas
- 30 BYOBox **F**

JANUARY

- 6 Homeschoolers Series: Electricity and Magnets (series begins) **C**
- 6 Books and Beyond! Science for Preschoolers **F**
- 8 Young Scientist Program (session 3 begins) **F**
- 13 Magic Carpet Program, Peru **A**
- 17 Montshire Unleashed: An Evening for Adults **A**
- 20 Flying Marshmallows **C**
- 20 Kitchen Science **C**
- 25 Earth & Sky Day **F**
- 31 Friday Night for Teen Tinkerers **Y**

FEBRUARY

- 1 *Sustainable Shelter*, exhibition opens
- 3 Books and Beyond! Science for Preschoolers **F**
- 10 Magic Carpet Program, Israel **A**
- 15 Igloo Build **F**
- 17 Tinkering Lab: Open Studio for Makers **C**
- 18 Science Snow Day **C**
- 20 Winter Wildlife **C**
- 21 Stop Motion Animation **Y**
- 28 Friday Night for Teen Tinkerers **Y**

MARCH

- 3 Books and Beyond! Science for Preschoolers **F**
- 5 Young Scientist Program (session 4 begins) **C**
- 10 Magic Carpet Program, Eclipse in Fiji **A**
- 21 Homeschoolers' Day: Earth Science **F**
- 21 Friday Night for Teen Tinkerers **Y**
- 29 Take Apart Day **F**

C = Children **F** = Families **A** = Adults **Y** = Youth



Montshire Museum of Science
One Montshire Road
Norwich, Vermont 05055



Non-Profit Org.
U.S. Postage

PAID

Permit No. 170
White River Jct., VT

MONTSHIRE MUSEUM

The Montshire Museum of Science features exhibits and programs on natural and physical sciences. The Montshire is an interpretive center for the Silvio O. Conte National Fish and Wildlife Refuge. The outdoor Science Park leads to a network of walking trails on our 110-acre property.

Hours: Open daily 10 a.m. to 5 p.m. Closed Thanksgiving and Christmas.

Phone: 802-649-2200

Web: www.montshire.org

Admission fee

\$14 adults, \$11 children ages 2–17. Free for Museum members and children under the age of 2.

MONTSHIRE MUSEUM BOARD OF TRUSTEES

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Walter Paine
Catherine Richmond
Margaret Rightmire
Rick Roesch
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Roger Sloboda
John Vogel
Steve Voigt
Jenny Williams

MONTSHIRE NEWS

The Montshire Museum of Science publishes *Montshire News* three times a year. Montshire members receive a free subscription.

Executive Director David Goudy
Associate Director Jennifer Rickards
Editor Beth Krusi
Design Wendy McMillan Design



First floor exhibit spaces and bathrooms are entirely wheelchair accessible. Second floor exhibit spaces can be reached by elevator. Science Park and some of the nature trails in the Quinn Nature Preserve are also wheelchair accessible.

Something **BIG** is coming...



**A T. REX
NAMED SUE**

**MAY 17–
SEPTEMBER 7,
2014**

Imagine an exhibition that took 67 million years to create. Discovered by Sue Hendrickson in South Dakota, *Sue* was the most complete and best preserved *Tyrannosaurus rex* ever found. Now, some 67 million years later, she's finding her way to the Montshire Museum of Science May 17-September 7.



This exhibition was created by The Field Museum, Chicago, and made possible through the generosity of McDonald's Corporation.



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