Inquiry-based Learning is the Focus of Exhibits & Programs

Laughter. Animated conversations. Intense concentration. When you step inside the Montshire Museum, you can see and hear learning taking place. People are questioning scientific phenomena, making surprising discoveries, and sharing new ideas. How does this happen?

From exhibit design to creating programs, the Museum’s work is guided by one question, “How does the Montshire create opportunities to engage children, families, and adults in science?” We involve people in ‘doing’ science through observing, questioning, experimenting, and talking, all of which are integral to developing scientific knowledge. Our belief is that engaging in science, working with real materials and phenomena, generates excitement about scientific inquiry and creates a greater understanding of how our world works.

“Inquiry” is one of those buzzwords that is often overused and misunderstood. At the Montshire we take that word very seriously. Inquiry is more than “hands-on.” True scientific inquiry provides the learner with the opportunity to ask their own questions, create their own experiments, make their own observations, and begin to formulate theories about how the world works. Designing inquiry experiences is not simple—it is a craft that has been nurtured and learned over the years at the Montshire, with the help of many, many visitors.

Think of a great exhibit—Ball Floaters. Montshire’s exhibit designers chose very specific parameters. The combinations are not endless and the variables are carefully controlled. Within this set of controls however, there is room for an individual to observe a ball popping out of a tube, and then try his or her own experiment. “What happens if I put two balls into one tube?” “What if I take this tube off and replace it with a taller tube?” The exhibit encourages experimentation and the testing of hypotheses within a very carefully orchestrated framework that has been artfully designed.

Likewise, think of a powerful learning experience at the Science Discovery Lab such as a Young Scientist program mixing colors or a Lab Coat Investigation exploring how to create an electrical current. The entry question “what happens when you mix these two different colors?” or “can you make a simple circuit with these two metals?” may be posed by the program leader. Participants then develop their own questions and design their own experiments to address the questions.

Engaging people in their own scientific discoveries is a joyful enterprise for all involved.
Dear Friends,

The Montshire Museum is at an exciting point in its evolution as a community-based organization. As a member of the Board of Trustees, I am excited about the Trustees’ role in moving forward.

With the advent of a new fiscal and program year in October, the trustees came together for a half-day planning retreat. It was a lively and meaningful conversation with 21 talented and engaged leaders around the table.

On your behalf, the trustees are looking at ways to make the Montshire Museum an even better resource for the local community and Northern New England. Several decades of physical expansion and programmatic improvements have brought us to a time when we can “polish the gem.” In other words, the time is right to find even better ways to serve our constituents, improve core services, and enhance the learning experience for Museum visitors. In the coming months, the board will be addressing a number of strategic questions and developing a shared vision for the Museum’s future.

Charlie and Kiwi’s Evolutionary Adventure offers an engaging story, exhibits, and activities that introduce visitors to the basics of evolution, seen through the eyes of Charlie, a young boy who is writing a report about his favorite bird—the kiwi. Join Charlie as he travels back in time to the age of the dinosaurs to discover the kiwi’s ancestors and evidence of how evolution works.

Charlie and Kiwi’s adventure unfolds in an intimate theater on a giant digital screen. Audiences travel back in time during the 12-minute video, “Charlie and the Very Odd Bird,” starring Charlie and his great, great, great, great grandfather as they discover how and why the flightless kiwi is still a bird. Visitors see how Charlie comes to understand the origins of birds and why they are all so different from each other.

Compare the homologous bones of a Bambiraptor (a dinosaur), archaeopteryx (one of the first birds) and a modern crow. Speed up time and witness the evolution of birds.

Live parakeets allow visitors to observe slight differences between the birds by examining the colors, shapes and sizes of their beaks, legs and feet. Variations like these in natural populations are the source of evolution by natural selection.

Visitors also have the opportunity to participate in hands-on activities that enhance understanding of evolutionary concepts.

Charlie and Kiwi’s Evolutionary Adventure, funded by a generous grant from the National Science Foundation, is a project of the New York Hall of Science, the University of Michigan, the Miami Science Museum and the North Museum of Natural History and Science. Funding was also provided by participants in Montshire’s “100+ Challenge.”

Margaret Rightmire
Chair, Board of Trustees
LEADERSHIP AND GOVERNANCE
The following people were elected as new members of the Montshire Corporation at the annual meeting held Thursday, September 1, 2011.

Lauren Girard Adams, Norwich, VT
Robert Aliber, Hanover, NH
Heather Benson, Norwich, VT
Thomas Blinkhorn, Hanover, NH
Karen Colberg, Lyme, NH
Keri Craft, Hanover, NH
Jane Kitchel McLaughlin, Lyme, NH
Grant Macewan, Lebanon, NH
Rick Roesch, Etna, NH
Roger Sloboda, Etna, NH

Officers of the Corporation were elected as follows:
Jane Kitchel McLaughlin, Lyme, NH
Corporation President

Lu Martin, Orford, NH
Corporation Vice President

At the Board of Trustees meeting held on September 26, 2011, the following officers to the Board were elected:
Margaret Rightmire, Chair
Rick Roesch, Vice Chair
David Otto, Treasurer
Bob Rosenblum, Secretary

NEW TRUSTEES
Grant MacEwan was born and raised in Sugar Hill, NH. He graduated from Dartmouth in 1980 with a degree in Economics, and received a Masters degree from Tuck School of Business in 1982. Grant spent five years at Bank of Boston in Boston, MA, before returning to the Upper Valley in 1987. He has been with Mascoma Savings Bank since that time and is currently the Senior Commercial Lender. Grant has served on a number of non-profit boards, including Hannah House and as Treasurer and Chair of the Alice Peck Day Health System. He and his wife Anne have three children (Andrew, Kate and Scott), who all took advantage of the Montshire, including the summer programs.

Jane Kitchel McLaughlin had a career in Actuarial Consulting in Chicago prior to moving to the Upper Valley 20 years ago. She has been active in the community, serving on the boards of Vital Communities, ValleyNet, Howe Library, Skating Club at Dartmouth, Upper Valley Community Foundation, and Friends of Norris Cotton Cancer Center. This past June, Jane received a MALS Degree from Dartmouth.

Jane is married to Peter McLaughlin, and has three children who are all in college. Her personal interests include cycling, traveling, kayaking, reading, and theater.

Roger D. Sloboda is the Ira Allen Eastman Professor of Biological Sciences at Dartmouth College. He received his undergraduate degree at the State University of New York at Albany, and his doctorate from Rensselaer Polytechnic Institute. He then conducted postdoctoral studies at Yale before beginning his faculty appointment at Dartmouth. Roger is a Whitman Investigator at the Marine Biological Laboratory in Woods Hole, MA, where he has taught and conducted research each summer since 1981.

At Dartmouth, he has served as the Dean of Graduate Studies and as Associate Provost for Research. His research lab is supported by the National Science Foundation to study how particles move and distribute themselves inside cells. In addition, he currently receives funding from the Howard Hughes Medical Institute to improve science education and teaching.

Roger and his wife Carol remember fondly their trips to the Montshire with their children, Aaron and Lara. They look forward to bringing their grandson Parker to the Museum to continue the cycle of terrific science education the Museum provides.

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, 2011.
Your purchase supports the Montshire Museum and its educational programs.

SHOP, SAVE, EXPLORE!

and preview Nikon Small World
Friday, December 2, 5–7:30 p.m.
Free admission to the Museum
SAVE at the Museum Store, home to a wide selection of books, toys, and nature-related gifts.

Members save 25%
non-members save 10%
Dear Friends,

Thank you for helping us reach our 2010-11 Montshire Fund goal. Through your generous contributions, you are ensuring the strength and vitality of an essential educational resource for families, schools and teachers. Unlike 90% of science museums nationally, the Montshire receives no state or local tax revenue for its operations—instead, we rely on you.

We are especially grateful for your support in a year that has been difficult for many. The volatile economy, compounded by flood damage in local communities, has challenged us all.

I would like to welcome all of our new donors, especially those who responded to our on-line “100+ Challenge” campaign. With their help, we will welcome Charlie & Kiwi’s Evolutionary Adventure to the exhibit hall in January.

I look forward to seeing you all at the Museum!

With many thanks,

Cinny Bensen
Chair, The Montshire Fund
Nancy Bean
Remie and Patricia Berk
Jessica and John Bell
John and Betty Berlendisch
Pete and Ruth Sleyter
Thomas Blinkhorn and
Betsy McGeen
Gunnars and Michele Vander Heyden
John and Alice Blount
Martin and Ellen Blumberg
Antrumig and Gilberte Boghosian
Richard and Dorothy Bower
Frank and Marli Bowles
Susan and William Boyle
Paul and Colleen Barr Bouwens
David and Nancy Bradbury
Dan and Winifred Brand
Dr. Carl and Ann Brandon
Chas Broadbent
Trudi Brock and Paul Kristensen
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at the Boston Foundation
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Reed Beavan and Andrea Brown
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Carol Campbell and John McKenna
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Margaret Cheney and Peter Welch
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James and Cathryn Christiansen
William Churchill and
Franie Lambert
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George Clark
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Austin and Betty Ann Kovacs
Carolynne Kruss and
Paul Rieswender
Jack and Ruth Ladenson
Dwight Lahr and Beatriz Pastor
David and Sharon Lamb

Participation

136,111 visitors came to the Montshire.
7,503 people participated in Montshire programs.
15,781 school children visited the Museum or participated in education programs.
1,345 school groups with 1,454 visitors came to the Museum for just $1/student.
461 youngsters participated in the Montshire Summer Camp programs.
628 people spent the night at the Museum as part of the Montshire Camp-In program.

SAVE THE DATE Montshire Auction
May 4, 2012
Corporate Partnership

“Economy Mechanical is part of the Montshire Corporate Associates because it’s a way that we can give back to the community. Though we’re based in Keene, NH, we do a lot of work in the towns near the Montshire. Our employees live up and down the river valley and they appreciate the opportunity to visit the Museum.”

—Dana O’Brien, Vice President

Montshire Corporate Associates (MCA)

Many local companies choose to become members of the Montshire Corporate Associates program. In addition to supporting the Montshire, MCA members 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 supported the Museum in 2010-2011 through their membership in the Montshire Corporate Associates:

Aditmo
Ailec Forliday Memorial Hospital
Aiken’s Vending Service, Ltd.
ARC Mechanical Contractors, Inc.
The Bayson Company
Bent Optics
Centurion Insurance Group
Chippers
Coop Food Stores
Coldwell Banker—Bedpath & Co.
CompuServe Inc.
Concepts Inc.
Dartmouth Coach
Dartmouth College
Dartmouth-Hitchcock Medical Center
Economy Mechanical
Estes & Gallup, Inc.
Fujifilm Dimatix, Inc.
Goodwill Industries
Global Forest Partners LP
The Hanover Inn
Hayden, Inc.
King Arthur Flour Company
Lake Morey Resort
Lake Sunapee Bank
Laing McLaughlin Spence Real Estate
Ledyard National Bank
Longacre’s Nursery Center
The Lyne Timber Co.
Martha Dalboz Real Estate
Masonica Savings Bank
Merrill Lynch
New England Industries
The Norwich Inn
Olympus Biotech
Olin & Associates
People’s United Bank
Resource Systems Group, Inc.
Schiffman, Dittrich & Liepmann, P.C.
Simon Pearce
Stevens Bradley, PA
Timken Aerospace
TomTom
Trumbull-Nelson Construction Company, Inc.
Tufts, Simms & St. Sauveur, P.C.
The Valley News
Wells Fargo Advisors, LLC
White Mountains Insurance Group

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Margaret Righthire
Martha Robb
Bob Rosenblum
Rick Roesch
Suzanne Schon
Jenny Williams,
Leadership Giving Chair

Pavilion Team

Nancy Dwight, Chair
Lu Martin
Rick Roesch
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Legacy Giving Committee

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Karen Dubois
Laura Duncan
Justine Faehey
Stephanie McCullum,
Co-Chair
Megan Rudy
Stephanie Singleton

All auction volunteers were recognized in the Auction catalog in May.

Magic Carpet

Martha Clark
Deb Davis, Co-Chair

And dozens of dedicated colleagues.

Elise C. Prescott
Jane Ralph
Thomas and Eilea Ramsey
Dustin and Elizabath Ray
John Reese and Deborah Frankel Reee
Shirley M. Reid
Stephanie Renninger
Stephanie and Jeff Rettew
Jim and Heidi Reynolds
Mr. and Mrs. George Rare
George and Mary Richards
Catherine Richmond and
Jacq Thomas
Les and Diane Riman
David and Kathryn Roberts
Paul and Lise Robinson
Barbara and David Roxy
Elaine Rohrbach and Derek Levin
Sarah and Dione Romans
Jacob Ross and Stacy Stillos
Manning Rountree and
Kendall Hoyt
Alan Rozyczki and Diane Kittredge
Fred and Joan Rueckert
Pete and Priscilla Rumstader
Elisabeth Russell
John and Karen Sanders
Emily and John Sanders
Frank and Brinnna Sands
Rick and Jan Saylor
William Schaeffer and
Anna Sonsrump
Christopher and Denise Schemm
John and Jill Sengor
Avery and Virginia Schlabach
Bruce and Sarah Schweiger
Barrie and Put Sellers
Susan and Marcus Shaker
Michael and Gail Shuman
Lynn Sheldon and David Hudgins
Kathleen and Jock Shepherd
Scott and Patti Shepard
Jonathan and Janet Simmons
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Bonnie Spence and
Monica Descamps
Arthur Skerker and Abigail Perham
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Leif and Gunilla Smidshaven
Bryan Smith and Beth Reaver
James and Margaret Southworth
Hall and Carol Hill Sox
Susan Spelman
Anne F. Spencer and Stephanie Bigelow Spencer
Sandy and Steven Spencer
Kathleen Stavisky and Mark Dave
Elizabeth Stephens and
Dr. Tanya Kalmar
Eleanor Stephens
Bob Stevens and Elizabeth Anderson
Alice Stewart and Kevin Swanson
Virginia Stone and Laurence Babcock
Mitchell and Sheryl Stokland
Linda and David Stover
Pegie and James Stokler
Kits and Judith Strobel
Scott and Susan Swansky
Matt and Tanu Swett
Susan and Anne Swett
Clint Swift and Bonnie Allard
Michael and Laura Taft
Jill and Stuart Tunn
Tracey and Mark Tenny
Lisa and Adrian Tons
Jennifer and Michael Taxman
Alva and Cail Taylor
Louise and Punch Tayler

The Montshire Fundraising Volunteers

The Montshire is grateful to the many volunteers who enthusiastically supported the fundraising efforts of the Museum in 2010-2011.
The Regional Resource Center is a collaborative program, serving students with multiple disabilities within the Upper Valley. Students learn skills necessary to live and work independently in their community. The building of the storage sheds at the Montshire Museum provided students an opportunity to work together on a project where they could learn job readiness and work maturity skills, and at the same time make a meaningful contribution to an organization in their own community.

The nails shimmer in the bright sunlight when I’m hammering just right. I’d better do it fast so the trusses won’t slide when the billowing wind blows them aside! Then, to make a cool bay, I’ll paint the walls gray. Oh boy, working at the Montshire is great joy!

—By Andrew Daniels

Friends

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

Anonymous (1)
Ginia and Huntly Allison
Celina and Philip Burton
Bill and Fran Buchmeyer
Robert and Jane Boon
Katharine Boynton and Winslow Hallowell
Helena C. Burdge
Craig and Jocelyn Cain

William and Priscilla Chester
Steve and Donna Christy
Nicolle and Jeff Chu
Ashley and Chris Clopp
Dale Collins and Richard Vidal
Matthew Conway and Jennie Johannesen
Keri and Kincon Craft
Norman and Joan Dalton
Dan and Leslie DeMars
Puck and Deedee Denison
Gina and Archer des Cognets
Samuel Dow
Cameron and Heidi Eldred
Cathy Fairbrothers, in honor of the marriage of Suzanne and Graham
Joanne Fouik and Denis Klemmen
Peter* and Lou Gardner
Susan and Jeff Goodell
Stuart Gordon
Margot M. Haddock
John and Rhoda Haley
Deborah and Aaron Kaplan
Rebecca Kates, in honor of Elizabeth Lundberg
Tim and Nathan Kloczko
Brian and Irene Lilly
Nancy and Larry Larsen
Joel and Barbara Lazar
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Claire and Allan Munck
Judy Music and John Vogel
Michael and Sally Newbold
Roger A. Phillips, DMD
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Cornelia and Matthew Purcell
Mr. Reeves
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Heather Salon and Adam Weinstein
Richard and Margaret Schwartz
Matthias W. Senger
Sierra Club, Vermont Chapter
Roger Soderberg
Scott E. Searls
Amy Stockman and David Gibson
Maurice and Leslie Toftkington
Carolyn Tenney
Geri and Nancy Troutmann
Stanley and Lee Udy
Mynar Wheeler
Alice and Brad Williams

* deceased

MONTSHIRE

The Regional Resource Center is a collaborative program, serving students with multiple disabilities within the Upper Valley. Students learn skills necessary to live and work independently in their community. The building of the storage sheds at the Montshire Museum provided students an opportunity to work together on a project where they could learn job readiness and work maturity skills, and at the same time make a meaningful contribution to an organization in their own community.
As a Student Director of the Tucker Foundation, I had the privilege of leading a team of first-year Dartmouth students in service activities at the Montshire during the Granite United Way Day of Caring. Throughout the day, I was moved and inspired by the strength, solidarity, and unity of purpose exhibited by the Upper Valley community through the coming together of its members with the common intent to serve.

I was particularly excited by the opportunity to serve at the Montshire, to which I am extremely grateful for its continual support of ASPIRE, an organization which I founded three years ago that provides services for children and families in our community affected by autism spectrum disorders. The Montshire staff has opened its arms to the children in our community affected by autism spectrum disorders.

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
- Gil Foundation Matching Gifts Program
- IBM Corporation Matching Grants Program
- Luminos Foundation for Education
- Moscoma Savings Bank
- Merck Partnership for Caring
- Microsoft Matching Gifts Program
- Pfizer Foundation Matching Gifts Program
- The Prudential Foundation
- Matching Gifts Program
- White Mountains Insurance Group

Corporate Exhibit, Program, and Event Sponsors

These companies supported the Museum with tangible gifts in kind or through sponsorship fees to underwrite a variety of exhibits, programs, and events, including the annual auction, in 2010–2011:

- Allair’s Vending Service, LLC
- The Bayley Company
- Centurion Insurance Group
- Chippers
- Dartmouth Couch
- Estes & Gallup, Inc.
- G.R. Porter & Sons, Inc.
- Gallagher, Flynn and Company, LLP
- Geckon Inc.
- Global Forest Partners LP
- Hadlock Consulting
- Hannaford
- Hypertherm H.O.P.E. Foundation
- Ledyard National Bank
- Moscoma Savings Bank
- Occum Media LLC
- Otto & Associates
- PCM Image-Tek
- Resource Systems Group, Inc.
- Smith & Vassant Architects, PC
- TomTom
- Tyler, Simms & St. Sauveur, P.C.
- Wells Fargo Advisors, LLC
- White Mountains Insurance Group

A Day of Caring

As a Student Director of the Tucker Foundation, I had the privilege of leading a team of first-year Dartmouth students in service activities at the Montshire during the Granite United Way Day of Caring. Throughout the day, I was moved and inspired by the strength, solidarity, and unity of purpose exhibited by the Upper Valley community through the coming together of its members with the common intent to serve.

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The Montshire is grateful to the following donors who contributed tangible gifts and services to the Montshire in 2010–2011:

- Muriel and Patrick Butler
- Bruce Gate
- Kate More
- David and Patricia Parsons

The James A. and Elizabeth S. Hughes Pavilion

The new Hughes Pavilion and outdoor restrooms opened in May 2011 and have been serving families and school groups ever since. Many thanks to all the donors to this project, listed below. We are grateful to each of these donors for recognizing the importance of learning from and enjoying the outdoors.

Anonymous (2)
- Harriette Barnes
- Mary Ann Barnes and Martha Nye
- James and Jane Barrett
- Ray and Cynthia Barrette
- Canny and Steve Bensen
- Barbara Blougl
- Doug and Katharine Britton
- Mary Ann Barnes and Martha Nye
- James and Jane Barrett
- Ray and Cynthia Barrette
- Canny and Steve Bensen
- Barbara Blougl
- Doug and Katharine Britton
The Montshire Auction

On Friday, May 13, 2011, the Museum enjoyed its 25th annual auction with the theme “Fiddlehead Fling.” The Montshire is grateful to the 50 volunteers who worked many hours on the event, the 298 donors who generously contributed items and services, our 21 civic-minded corporate sponsors, and the 323 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 the 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. Their planned gifts will be included in the Museum’s endowment and will help the Montshire provide excellence in programming and exhibitions in perpetuity.

Anonymous (3)

James and Jane Barrett
Barbara Bisqugh
Lisa Coshidan and Peter Stein
Arnold Castagnier
Gay Cathcart
Chattanooga Lead Trust
Mary Chong and Alden Hall
Nancy Dwight
David Goudy
Hugh Hermann
Barbara Jones and Ben Lewis
Peter and Lu Martin
Carolyn and Peter Mertz
David and Mary Otto
Walter Paine and Barbara Moyer
Robert and Elizabeth Porter
Allie and Brian Quinn
Bob and Nancy Rosenblum
Anne S. Segal
Peter and Anne Silberfarb
Peter Stettenheim
Dr. Joseph and Jane Stevens

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.

The Montshire is a proud partner of: www.leavealegacyvt.org.

Montshire Trustees, Finance and Investment Committees

2010-2011
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“I Need Montshire”

Six years ago when asked where she wanted to go after one of our weekly pickups from daycare, two-year-old Eliza answered with her first complete sentence: “I need Montshire.”

This “need” to visit the Montshire was reminiscent of the times when our young nephew, Sylvan, visited us and would insist on going to the “bowling alley,” meaning the Montshire, then housed in the old bowling alley in Hanover on Lyme Road.

In many ways we all “need” Montshire because it links us with a community of friends who love and enjoy all that the Montshire has to offer.

The Montshire is where the ages meet, where adults become curious kids again and kids begin on their path to become creative, thoughtful, problem-solving adults. The Montshire is where all ages interact and real community is developed.

—Reeve Williams and Sandie Anderson

Montshire trustees, Finance and Investment Committees


**FOR CHILDREN**

**Young Scientist Program**

**Winter Session:**
- January 11–February 15
  - Members $165, non-members $180
- Early Spring Session:
  - February 29–April 11
  - Members $195, non-members $215

**Late Spring Session:**
- April 25–May 16
  - Members $110, non-members $120

Morning, 9:30 a.m.–noon, or afternoon, 1–3 p.m.

This program integrates hands-on experiments, fun projects, and individual explorations in the physical and natural sciences. The science investigations and natural history explorations introduce young learners to the science in an age appropriate manner. For children ages 4–kindergarten.

**Flying Marshmallows!**

Thursday, December 29
10 a.m.–noon

In this fun workshop, we will make things move just by harnessing the air that’s all around us. We will start with a series of experiments to discover how air pressure works, then you’ll build your own air-powered marshmallow launcher to take home. For children in grades K–2. Members $40, non-members $45.

**Microscopic Explorations**

Thursday, December 29
1–3:30 p.m.

Learn how to use our new light microscopes and examine everything from cells and microbes, to plants and animals. Then try other types of microscopes, including the Museum’s dissecting scope and videoscope. You’ll even have the chance to take your own ‘microscopic’ photographs. For children in grades 3–5. Members $40, non-members $45.

**From Ice Cubes to Ice Cream**

Monday, January 16
10 a.m.–noon for grades K–2
1–3 p.m. for grades 3–5

This program is about all things frozen. Our ‘chilling’ experiments will involve ice, snow, and even dry ice. Then we will discover how salt affects water’s freezing point when we make our own ice cream! Members $35, non-members $40.

**Homeschoolers’ Series**

- **New England Animals**
  - Mondays, January 23, 30 & February 6
  - 10:30 a.m.–noon, for ages 6–8
  - 1–2:30 p.m. for ages 9–12

Learn about the mammals and birds of the Upper Valley in this three-part series. Using specimens from our collection of animal mounts, we’ll learn about animal adaptation and behavior, and the tracks and signs animals leave behind. Weather permitting, we will spend one session snowshoeing on the Museum’s trails looking for signs of animals. Members $60, non-members $66. (snowshoes provided)

- **February Break**
  - Lego® Madness!
  - Tuesday, February 21
  - 10 a.m.–noon for grades 1–3
  - 1–3 p.m. for grades 4–6

Explore spinning, twisting, moving, and building in this special February vacation program using Lego® blocks—and lots of them! We’ll create whimsical machines that move in surprising ways. Members $35, non-members $40.

- **Animals in Winter**
  - Thursday, February 23
  - 10 a.m.–noon for grades K–2
  - 1–3:30 p.m. for grades 3–5

Join us and learn how local wildlife survive the long winter. We’ll learn about animal adaptation and behavior, and the tracks and signs animals leave behind. Weather permitting we’ll strap on our snowshoes and head outside to look for animal signs and tracks in the snow. Members $30, non-members $35.

**After School Adventures Programs**

- **All About Air**
  - Mondays, March 5, 12, 26, & April 2
  - Drop off between 3:15 and 3:30, pick-up at 5:15 p.m.

Join us for an afterschool science program that is “All About Air.” We’ll launch parachutes, fly kites and make stomp rockets while we explore the properties of air. This four-week program will ignite your child’s passion for all things scientific! For children in grades 1–3. Members $110, non-members $120.

- **Electricity & Solar Power**
  - Tuesdays, March 27, April 3 & 10
  - Drop off between 3:15 and 3:30, pick-up at 5:15 p.m.

Join us for this electrifying three-week afterschool series. Starting with basic circuits we’ll explore how much electricity can be produced from a photovoltaic cell. During the third class, you’ll get to try building your own solar powered car. For children in grades 4–6. Members $90, non-members $100.

**FAMILY**

**Hot Air Balloons**

Wednesday, December 28
10:30 a.m.–noon; or 2–3:30 p.m.

Build and launch a hot air balloon at the Montshire! Learn about the effects of heat on an object’s density with a couple of experiments. Then each family will construct their own balloon to launch from the middle of the exhibit floor. $20/family.

**Build a Bluebird Box**

Friday, February 24
10:30 a.m.–noon or 2–3:30 p.m.

Their brilliant blue feathers, along with their courting and nesting behaviors, make bluebirds truly unique. Learn about their natural history, and then build your own bluebird box to take home in this family activity. $30/family. (includes materials for one bluebird box)

**Homeschoolers’ Day**

- **Our Bodies, Our Health**
  - Friday, March 23, 2012
  - 10:30 a.m.–3 p.m.

Join other homeschoolers and their families for a day of science as we explore health, nutrition and human biology through hands-on activities and investigations. This day provides a great way to delve into science with your homeschooling peers. Free with Museum admission.

**Books and Beyond**

Mondays: December 12, January 9, February 13, March 12, April 9
10:15 a.m. or 11:30 a.m.

This popular program combines great children’s literature and hands-on activities for fun science learning and exploration. Each session features a different book and activity. For children ages 3–5 and their parent or caregiver. Free with Museum admission.

**Earth and Space Day**

Saturday, January 28
10:30 a.m.–3:30 p.m.

Celebrate science, the wonders of the Earth, and our place in the universe. Museum education staff and special guests will provide a full day of activities for learners of all ages covering topics from “What’s up in tonight’s sky?” to activities exploring the large-scale processes that drive our planet’s systems. This program is part of The Dynamic Earth, with funding from NASA. Free with Museum admission.

**20th Annual Igloo Build**

Saturday, February 25
10:30 a.m.–2 p.m.

Learn the inside scoop of building a simple-yet-elegant igloo and other snow dwellings from expert Dr. Bert Yankielun. The day starts with a step-by-step demonstration. Then try your hand at building an igloo block-by-block with friends and family. Free with Museum admission.

**ADULT**

**The Science of Brewing Beer**

Sunday, February 12, 1–4:30 p.m. & Sunday, March 18, 1–4 p.m.

Join us for this special opportunity to learn to brew your own beer while gaining a greater understanding of the science behind fermentation. During the first class, Scott Russell, Vermont Home Brew Guru, will lead us in preparing a batch of beer, while Lori Bergeron, a biology professor at New England College and home brewer will fill us in on the microbiology and science of...
browsing beer. We will meet five weeks later when the beer will be ready to bottle (and take home) then head over to the Norwich Inn for a tour with Brewmaster Jeremy Hebert and a beer tasting. Adults 21+. Members $125, non-members $140.

Investigating Earth from Above
Thursdays, March 1–29, 2–4 p.m.
Join us Thursdays in March as we learn how to find, interpret, and manipulate NASA and NOAA images using a home computer. From animating the seasonal changes of our planet’s biosphere, to documenting changes in Arctic sea ice, you’ll gain an understanding of the large-scale processes driving the Earth’s living and non-living systems. This program uses a study-group model where you’ll share your research and lead discussions as we learn together. This course is funded in part with a grant from NASA. Members $75, non-members $85.

Science on Tap
This special series of Montshire After Hours events combine short informative talks on current topics in science with open exhibits, and wine and beer from the Norwich Inn. 6:30-9 p.m. Adults 21+. $10.

Sustainable Biofuels
Dr. Lee Lynd
Thursday, December 8

The Brain as a Storyteller
Everett Dance Theater
Wednesday, January 11

Building a Better Athlete by “Gene Doping”
Dr. Lee Witters
Thursday, February 2

TEACHERS

- Experimenting with Plants in the Primary Grades
  Friday, January 20. 9 a.m.–3 p.m. Grades K–2 teachers. $55.
- The Reasons for Seasons
  Thursday, January 26. 9 a.m.–1 p.m. Grades 5–8 teachers. $55.
- Investigations into Force and Motion
  Friday, February 10. 9 a.m.–3 p.m. Grades 4–6 teachers. $125.
- Linking Science and Literacy in the K–6 Classroom
  Thursday, February 16. 9 a.m.–3 p.m. Grades K–6 teachers. $125.
- Cells!
  Friday, March 30. 9 a.m.–3 p.m. Grades 5–8 teachers. $70.
Montshire Museum of Science
One Montshire Road
Norwich, Vermont 05055

Montshire News

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, Christmas.
Phone: 802-649-2200
Web: www.montshire.org
Admission fee
$12 adults, $10 children ages 2–17. Free for Museum members and children under the age of 2.

Supporting the Museum

Building and Grounds
$433/day

Free admission for families in need
$3,150/month

Amount not covered by visitor revenue
$4.37/visitor

Charlie & Kiwi’s Evolutionary Adventure
$25,000

Science Discovery Lab supplies
$1,950/year

Energy-efficient light bulbs installed this year
$2,600

Books & Beyond
$211/session

Average Camp Scholarship
$196

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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. Several nature trails on the Quinn Nature Preserve are also wheelchair accessible.