

Far and Near



A MATTER OF PERSPECTIVE: At left: The Pyramids, Egypt, as seen in *Earth from Space*. At right: Juvenile bivalve mollusc from the *Nikon Small World* exhibition.

This fall, the Montshire is bringing you two visiting exhibitions that capture the world from different perspectives.

High above the clouds, dozens of sophisticated imaging satellites circle the Earth every day. These high-tech machines capture extraordinary conditions and events that are nearly impossible to document from the surface of the planet. These remarkable images, which reveal the awesome beauty of the planet's surface through the "eyes" of a space satellite, are on display in a remarkable Smithsonian traveling exhibition.

Earth from Space will be at the Montshire September 17 to November 27, 2011. Featuring 40 beautifully detailed satellite images of the planet—from the swirling arms of a massive hurricane to the triangular shadows cast by the Great Pyramids—*Earth from Space* illustrates how satellite imagery is gathered and used to expand humankind's understanding of life on Earth. *Earth from Space* was developed by the Center for Earth and Planetary Studies at the Smithsonian's National Air and Space Museum, in collaboration with the Smithsonian Institution Traveling Exhibition Service (SITES). The exhibition has been made possible by Global Imagination. Additional support has been provided by the U.S. Geological Survey and the Smithsonian Women's Committee.

A second visiting exhibition, *Nikon Small World*, provides a view of the world that most have never seen. It is a window into a universe that can only be viewed through the lens of a microscope. The *Small World* exhibition is a collection of winning entries from Nikon's annual photomicrography competition. Merging science and art, these outstanding images cover a wide range of biological, chemical, and material substances.

Montshire visitors will have the opportunity to see this exhibition of 20 award-winning images December 3, 2011, through January 16, 2012.



Dear Friends,

The Montshire Museum continually strives to meet your needs and those of the communities we serve. How do we know we're on the right track? We ask, listen, observe, and learn as much as we can about our constituents. This ongoing process continues to inform our decisions as we move forward. Our work is also influenced by research taking place beyond the Museum walls—we learn from colleagues at other leading science centers and teaching institutions.

Our new program, *Science on Tap*, offers in-depth conversations for adults, while the renovation of Andy's Place serves our youngest visitors. Serving visitors of all income levels remains a priority. Montshire provides free admission passes to the clients of our region's human service agencies, and offers scholarships so that young people can participate in Summer Camp and other programs.

Moving forward, I ask for your involvement. Whether you're responding to a formal survey, sending us an email, or posting a comment on our Facebook page, we're always interested in hearing from you. Consider becoming involved as a volunteer. Our website lists numerous volunteer opportunities. Make a donation—special projects and Museum operations rely on your generosity. The Montshire Fund deadline is September 30 and I encourage each of you to contribute.

Thank you.


David Goudy
Executive Director

With Your



▶ Hughes Pavilion

The James A. and Elizabeth S. Hughes Pavilion opened this spring and it has been helping families, summer campers, and school groups enjoy the Montshire's outdoor landscape every day since then. King Arthur Flour provided lunches and snacks under the Pavilion all summer, making it even more of a draw for visitors! The Pavilion was dedicated on June 21 with many supporters of the project on hand, including the family of James and Elizabeth Hughes, which made a generous contribution in their memory.



▶ Andy's Place

Twenty years and one million kids under the age of 5? Time for an upgrade! Thanks to a grant from the Couch Family Foundation, Andy's Place

has fresh paint and carpet, energy efficient lighting, new exhibit components like fossils and animal skins, and better access to the periscope. Many thanks to those visitors who agreed to be interviewed and observed using Andy's Place—your involvement helps us understand what's working and what's not. We encourage you to crawl into the bear cave to check out some of the changes!



Involvement...

we strive to meet the community's needs.
Your participation makes a difference.



- **Montshire Summer Camp**
2011 was another great year for Montshire Summer Camp! 457 campers from age 4 to 13 trekked across marshes, observed insects, swam in the river, created ingenious new inventions, and wrote quietly in their Magic Spots. Montshire Campers were able to experience these wonders first-hand and develop an appreciation of the world around them.



- **Scholarships**
The demand for Montshire Summer Camp Scholarships was higher in 2011 than ever before. The Montshire was able to meet the needs of many applicants with the support of several very generous donors: Hanover Garden Club, Agnes M. Lindsay Trust, Page Hill Foundation, Turrell Fund, and guests of Montshire's 2011 auction. Thank you.

- **Science on Tap**
Science on Tap—Montshire After Hours is back! This fall, Montshire will continue its evening programs for adults with drinks, open exhibits, and casual conversations about contemporary topics in science. Check online for the fall/winter schedule.



FOR CHILDREN

Young Scientist Program

Wednesdays, September 14–December 14

(no class Nov. 23)

Morning session: 9:30–11:30 a.m.

Afternoon session: 1–3 p.m.

This weekly program is designed to ignite and foster your young child's curiosity about the physical and natural world. The hands-on experiments, fun projects, and individual explorations are specially designed to introduce preschoolers and kindergartners to science in an age appropriate manner. For children ages 4–kindergarten. Members \$365, non-members \$395. Limit 12 per session, pre-registration required.

Books and Beyond!

Science for Preschoolers

Fridays, September 12, October 17, November 14, & December 12

10:15 or 11 a.m.

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

Afterschool Science Adventures

Mondays, October 17, 24, November 7, 14

Drop off between 3:15 and 3:30–5:15 p.m.

Join us this fall for an afterschool science program filled with designing, building, and experimenting. We'll study motion as we make toys and machines that roll, spin, and pop. Each afternoon begins with a snack and open exploration time before diving into the day's projects. This program will ignite your child's passion for all



things scientific! For children in grades 1–3. Members \$100, non-members \$110. Limit: 12, pre-registration required.

FOR FAMILIES

Homeschoolers' Day

Make it Move!

Tuesday, September 22
10 a.m.–3:30 p.m.

Join other homeschoolers and their families for a day of science as we explore motion through hands-on activities and investigations. Delve into science while meeting your homeschooled peers from Vermont and New Hampshire. Free with Museum admission.

Montshire Fund Celebration

Thursday, October 6
5:30–7:30 p.m.

Join other Museum supporters for an evening reception featuring guest speaker Jay Buckley. A separate program and dinner is offered for children. (By invitation only.)

MCA Employee Appreciation Night

Wednesday, October 26
5:30–7 p.m.

Employees of Montshire Corporate Associates are invited to bring their families and explore the Museum. Light refreshments. Free.

9th Annual Machine Madness

Saturday, November 12
1–4 p.m.

Inventors of all ages are invited to bring their home-built contraption to the Montshire and link it with other creations made by fellow participants. The result is an incredible chain reaction! Open to people of all ages and mechanical abilities. Details and building guidelines are available at www.montshire.org/mmadness. Let's make this the biggest year ever! Free with Museum admission.

ADULT PROGRAMS

Mushroom Walk

Sunday, October 2, 2011
1–4 p.m.

Mushrooms and other fungi are commonly seen on the forest floor in autumn. How does one tell which mushrooms are edible and which ones should be avoided? Join expert Faith Hunt on this foray that will introduce you to a spectacular variety of local fungi. The program concludes with an opportunity to sample some of the day's edible finds. Members \$60, non-members \$75. Pre-registration required.

Bark Basics: Know Your Trees

Sunday, November 13, 2011
12–4 p.m.

The traits most often used to describe tree species—leaves, buds, and twigs—are often not clearly visible or, in the case of leaves, absent more than half the

year. Join Michael Wojtech for an exploration of bark, the tree characteristic that is always visible in every season. After an indoor presentation we will head outdoors and practice identifying trees. Open to naturalists at all levels of experience. Instructor: Michael Wojtech, naturalist and author of *Bark: A Field Guide to Trees of the Northeast*. Cosponsor: New England Wild Flower Society (NEWFS). To register, contact NEWFS at 508-877-7630 or visit www.newfs.org. Course Code: BOT3214. Members \$48, non-members \$58. Limit: 16, pre-registration required.

Science on Tap: Montshire After Hours

This special series of Montshire After Hours events combines short informative talks on current topics in science with open exhibits, and wine and beer from the Norwich Inn. (We'll even pull out a few tricks at the Science Discovery Lab.) Check www.montshire.org for the upcoming schedule. Doors open at 5:30 p.m. to adults 21+. The Museum remains open until 8:00 p.m. Tickets, available at the door, are \$10 and include one complimentary drink.

Teacher Workshops

Teaching About Weather in the K-5 Classroom

Thursday, October 20
9 a.m.-1 p.m.

Spend the day exploring the big ideas in weather—what makes weather, how it changes and moves, and how to predict it. You will use the Museum's Dynamic Globe exhibit to explore this topic and will learn a variety of hands-on activities appropriate for elementary school classrooms.

Supported with funds from NASA. Fee: \$55 (includes lunch). Limit: 14, pre-registration required.

The Reasons for Seasons

Thursday, January 26
9 a.m.-1 p.m.

Join other educators as we learn new hands-on investigations to better understand the causes and consequences of seasonal change. Work with models and view satellite images showing change over time. This workshop will provide you with new ways to teach the reasons for seasons. For grade 5-8 teachers. Supported with funds from NASA. Fee: \$55 (includes lunch). Limit: 14, pre-registration required.

MAGIC CARPET SERIES

Join Magic Carpet volunteers for an extraordinary travelogue and a regionally inspired meal. Programs begin at 11 a.m.; lunch is served at noon. All proceeds benefit the Montshire Museum.

Members \$12,
non-members \$15.
Pre-registration required.

October 3, 2011

Oman,
Christine Eickelman

November 7, 2011

Bulgaria,
Anastassia Radeva

December 12, 2011

Grand Canyon,
Tom Wilson

January 9, 2012

Siberian Eclipse Adventure,
Bob Koester

February 6, 2012

Kilimanjaro and Safari,
Lisa Densmore

March 12, 2012

Thailand,
Monte Clinton

WE ARE PLEASED TO ANNOUNCE THE WINNERS OF THE 3RD ANNUAL PHOTO CONTEST:

We received dozens of outstanding entries in each category. A special thank you to everyone who participated in the contest!



DOING SCIENCE
Pam Stone
Weare, New Hampshire



SCIENTIFIC PHENOMENA OR NATURAL HISTORY
Ashley Heywood
Ashby, Massachusetts



FAVORITE PLACE OR EXHIBIT
Raine Riggs
Claremont, New Hampshire

NEWS AND NOTES



► CLIMB ABOARD THE WHITE RIVER FLYER FOLIAGE TRAIN

Tuesdays through Sundays, September 20–October 23. Montshire Members save 50% on Fridays! Arrive and/or depart at the Montshire then continue to Thetford or White River Junction. A fun adventure for the entire family. Visit www.rails-vt.com for more information.

► MONTSHIRE MUSEUM SELECTED FOR 2012 GIVING MATTERS SERIES

New Hampshire Charitable Foundation and New Hampshire Public Radio have selected the Montshire to be featured in their 2012 Giving Matters series—an ongoing production of radio spots highlighting the significant positive impacts nonprofits have in our communities. A selection committee reviews submissions for compelling stories that best help to convey the breadth, diversity and reach of the sector. First-hand accounts showcase ways in which nonprofit work touches lives and enhances community well-being.

► MONTSHIRE RECEIVES THE SEVEN “DAYSIES” AWARD.

Seven Days’ readers pick the Montshire as the best museum in Vermont (outside of Chittenden County).

Shop, Save, Explore!

and Preview of
Nikon Small World
Friday, Dec. 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%.
Refreshments, and author signing!

► NEW TRAILS STATS

Several Montshire trails have been rerouted. Since then, we have installed 8 new trail maps, 1,016 trail markers (using 2,032 nails) and updated 29 signposts with 80 signs by applying 2,240 vinyl words and 320 icons. Whew! Come take a walk and enjoy stunning views and intriguing trailside exhibits.

► NEW TO THE MUSEUM

Sherlock Terry recently joined the Museum’s exhibits department as the exhibits



assistant. In addition to researching and scheduling traveling exhibitions, and managing the aquarium exhibits, Sherlock will be creating and updating signage throughout the museum and

grounds, and assisting in the creation and evaluation of new exhibits. Sherlock worked as an exhibit consultant; as an exhibit developer at Explora! Science Museum in Albuquerque, New Mexico; as co-director of the Donkey Gallery, also in Albuquerque; and as an instructor in digital media at Johnson State College. He received a B.F.A. from Concordia University in Montreal and a M.F.A. from the University of New Mexico. Sherlock grew up in Vermont, and he and his family have relocated to the Upper Valley from northern Vermont.

► VOLUNTEER OPPORTUNITIES

Autumn brings a variety of opportunities to volunteer at the Montshire.

- Explainers interact with visitors to enhance their experience while visiting the Montshire. Training is scheduled for late September.
 - Young Scientist Program volunteers work with a staff teacher to introduce science to young children.
 - Magic Carpet volunteers organize the popular Magic Carpet luncheons.
 - Auction Volunteers provide leadership and creativity to make the Museum’s principal fundraiser a success.
- For additional information, including time commitment and an application, visit our website at www.montshire.org, or email us at volunteer@montshire.org.



Calendar



SEPTEMBER

- 1 Montshire Corporation Annual Meeting (by invitation), 4:30 p.m. **A**
- 10 Vermont Public Television's Family Day **F**
- 12 Books and Beyond! Science for Preschoolers **F**
- 14 Young Scientist Program, fall session begins **C**
- 14 Montshire Volunteer Breakfast (by invitation), 8:30 a.m. **A**
- 17 *Earth From Space* exhibition opens **F**
- 22 Homeschoolers' Day: Make it Move! **C**

OCTOBER

- 2 Mushroom Walk **A**
- 4 Magic Carpet, Oman **A**
- 6 Montshire Fund Celebration (by invitation), 5:30–7:30 p.m. **F**
- 10 Last day the water is on in Science Park **F**
- 11 Montshire Volunteer trip (by invitation) **A**
- 13 Estate planning workshop with Otto & Associates, 3:30–5 p.m. **A**
- 17 Books and Beyond! Science for Preschoolers **F**
- 17 Afterschool Science Adventures begins **C**
- 20 Teaching about Weather in the K–5 Classroom **T**
- 26 MCA Employee Appreciation Night, 5:30–7 p.m. **F**

NOVEMBER

- 7 Magic Carpet, Bulgaria **A**
- 12 9th Annual Machine Madness **F**
- 13 Bark Basics: Know Your Trees **A**
- 24 CLOSED (Thanksgiving)

DECEMBER

- 2 Shop, Save, Explore, 5–7:30 p.m. **F**
- 3 *Nikon Small World* exhibition opens **F**
- 12 Books and Beyond! Science for Preschoolers **F**
- 12 Magic Carpet, Grand Canyon **A**
- 24 Museum closes at 2 p.m.
- 25 CLOSED (Christmas)

Montshire is open New Year's Day!

Always check www.montshire.org for the most up-to-date information, full program descriptions, and to register.

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

\$12 adults, \$10 children ages 2–17.
Free for members and children under 2.

MONTSHIRE MUSEUM BOARD OF TRUSTEES

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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
Director of Development 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 walking trails on the Quinn Nature Preserve are also wheelchair accessible.

Non-Profit Org.
U.S. Postage
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White River Jct., VT



Montshire Museum of Science
One Montshire Road
Norwich, Vermont 05055

Bring Charlie & Kiwi to the Montshire!

Help us meet the 100+ Challenge

Three volunteers will donate \$1,500 to the Montshire

Museum if 100 or more new donors contribute to the Montshire in September. Please help us reach this goal!

Do you value families learning together? Do you love your visits to the Montshire, but have yet to make a donation? Did you realize that income from visitors provides only 59% of the cost to operate the Museum? Now is the time to make a difference!

Why now? Your gift this September will help:

- > Bring a special exhibition to the Montshire Museum in January: *Charlie & Kiwi's Evolutionary Adventure*
- > Meet the 100+ Challenge and secure an additional gift of \$1,500!

Make a gift by September 30 and you will be recognized personally in the exhibit gallery for four months—the duration of the exhibition. Each new gift, no matter what size, will help us meet the challenge. Please give today: on-line, by phone, or by mail. Thank you!

