



Imagine an exhibition that took 67 million years to create!

*A T. rex Named Sue—at the Montshire
May 17 through September 7*

AT. rex *Named Sue* brings the story of the largest, most complete, and best-preserved *T. rex* to life in a visceral experience combining visual, tactile, audible, and aromatic activities with compelling educational content.

Sue was a *Tyrannosaurus rex* that roamed North America about 67 million years ago, one of the last dinosaur species and one of the largest flesh-eaters ever to have inhabited the Earth. The “tyrant lizard king,” with its extraordinarily powerful jaws and massive serrated steak-knife teeth, still dominates popular perceptions of the Age of Dinosaurs.

Sue the *T. rex* is named for Sue Hendrickson, who discovered the dinosaur near Faith, South Dakota, during the summer of 1990. Shortly after its discovery, the fossil became the center of an intense ownership dispute. A protracted court battle ensued, and the court ruled that Sue belonged to the rancher on whose land she was discovered. The rancher decided to sell Sue at public auction.

To ensure that Sue would be preserved for future generations of scientists and visitors, The Field Museum in Chicago purchased Sue for \$8.4 million at auction in 1997. After spending more than 30,000 hours preparing the more than 250 bones and teeth in Sue’s skeleton, The Field Museum made exact, fully articulated replicas so that people around the world would have the opportunity to view and study Sue.

Previously, only a handful of partial *T. rex* specimens had been found, none more than 60% complete. At 90% complete and exquisitely preserved, Sue is the most celebrated example of its species, permitting more detailed studies of the biology, growth, and behavior of a *T. rex* than previously possible.



Warm Welcome



Dear Friends,

For 33 years, I've had the pleasure of serving as the Montshire's executive director. Now it's time to begin planning for the next chapter in the Museum's evolution. I have announced my plans to retire in early spring 2015.

It is an ideal moment to secure new leadership to carry Montshire to yet greater levels of excellence and community service. Montshire is in a position of great strength, with excellent internal staff leadership capacity, creative momentum, and healthy finances, not to mention a superb Board of Trustees and team of volunteers. I am confident that this world-class institution will attract exceptional candidates for the new executive director.

My announcement will not slow the pace of activity and innovation in the year ahead. This coming summer we will host our most ambitious exhibition ever with the famous *T. rex* named Sue occupying our central exhibit gallery. Our education department is creating a "Tinkering Lab" to creatively engage young teens, and we're developing a major teacher professional development initiative to support science teaching in the region's schools.

With your ongoing interest and support, I know the Montshire will continue to grow and thrive as we engage our region's families, schools and communities.

Thank you,

David Goudy
Executive Director



The Montshire Museum is pleased to announce a major expansion of our

Warm Welcome program, enhancing a longstanding series of initiatives designed to ensure accessibility to low-income families.

Montshire is now offering \$2/person admission and \$15 memberships to any family who shows an EBT or Medicaid Card, or a letter confirming their eligibility for the Free or Reduced Price School Meals Program. We hope families will use these opportunities to visit the Museum regularly.

Before launching this major expansion of our program in late January, we had a series of conversations with human service providers, local families and schools. We are pleased that the response has been enormously positive so far.

"I am very grateful to everyone who provided feedback and advice in the development of this initiative," said Jennifer Rickards, Associate Director, who has spearheaded the initiative. "We are delighted that so many local families are excited about the opportunity to visit and engage with the Montshire."

This new initiative has been made possible with support from the Jack and Dorothy Byrne Foundation.

NEW GRANTS BRING ENGINEERING TO LIFE

The Argosy Foundation has renewed its support of the Museum's FIRST LEGO® League team, training for first-time LEGO League coaches, and tinkering and engineering programs.

Visit the Museum this August when we will be testing a new Tinkering Lab on the exhibit floor.

The Montshire is also collaborating with the U.S. Army Cold Regions Research and Engineering Laboratory (CRREL) to deliver a series of educational programs. Funding from the ERDC Broad Agency Announcement for Science, Technology, Engineering and Mathematics Program will underwrite STEM programs in and out of school, and provide opportunities for CRREL scientists to engage with the public.

EMPLOYEE APPRECIATION DAY FOR OUR MONTSHIRE CORPORATE ASSOCIATES

The next Employee Appreciation Day is Saturday, May 10. Employees of MCA companies are invited to bring their families for a free visit. For more information, contact michelle.kersey@montshire.org.

LUNCH SERVICE IN THE HUGHES PAVILION

Maple Street Catering will be serving up a delicious variety of sandwiches, salads, snacks, beverages, and ice cream in the Hughes Pavilion this summer, June 22–September 7, 11 a.m.–4 p.m.



NEW MONTSHIRE STAFF

We are pleased to announce the addition of two new members of our admissions team — Bev Vaughan and Will Weatherly.

EXECUTIVE DIRECTOR DAVID GOUDY TO RETIRE IN 2015 ▲

Montshire Museum's Executive Director David Goudy has announced his plans to retire in March 2015, following 34 years as the Museum's executive director.

"David Goudy has made the Montshire Museum his life's work. Over the three decades of his vigorous and enlightened service, his stewardship has made a lasting mark," said U.S. Senator Patrick Leahy. "The Mont-

shire Museum is one of Vermont's great treasures. The Montshire offers exhibits that are both educational and interactive, for children and adults alike. Every time I have visited with Marcelle and, especially, our grandchildren, we have left thrilled and fulfilled."

In anticipation of a national search for Goudy's replacement, Montshire's Board of Trustees has engaged Kittleman & Associates, a firm specializing in executive searches for the nonprofit sector, and specifically in museum leadership transition.

"The Board of Trustees is fully committed to maintaining the high standards that David has established for the Montshire's educational programs, exhibits, facilities and visitor services," said Cinny Bensen, Chair of Montshire's Board of Trustees.



POP-UP SCIENCE ▲

Montshire is bringing the thrill of scientific discovery to communities in Vermont and New Hampshire. Montshire's Pop-Up Science tent is our newest outreach program visiting local communities, fairs, and schools, with health science programming as well as creative engineering, tinkering, and aquatic ecology. Development of the Pop-Up Science program was funded by the National Institutes of Health through the Museum's Science Education Partnership Award.

MONTSHIRE'S WEBSITE GETS AN UPGRADE

Montshire's website (montshire.org) is chock-full of useful and up-to-date information about exhibits, programs, summer camp, membership, and ways to support the Museum. To make it more useful for visitors, we are optimizing the site for mobile devices and making the website significantly faster.

APRIL VACATION
WEEK PROGRAMS

Gravity Makes It Go!

Monday, April 14
10 a.m.–noon

We all know that force of gravity makes things fall. But what happens when we harness the energy of a falling object? We will experiment with motion and make a toy that uses gravity to make it go. Limit 12 participants. For children in grades K-2. *Members \$35 non-members \$40*

All About Air

Monday, April 14, 1–3 p.m.

Air can be a powerful tool and incredibly fun for experiments! In this workshop we will investigate the properties of air. We will squish air, move air, and use it to create wonderful pneumatic toys. Limit 12 participants. For children in grades K-2. *Members \$35 non-members \$40*
A supervised lunch hour will be provided for student signed up for both April 14 programs.



Toy Cars

Thursday, April 17
10 a.m.–3 p.m.

Imagine spending the day designing and building cars! We'll start the day experimenting with wheels and axles to make a self-propelled toy car. Using what we learned in the morning, we'll add motors, pulleys, and gears to make motorized cars that can zoom through the Museum. Participants get to take their car home. For children in grades 3-5. *Members \$70 non-members \$80*



CHILDREN AND YOUTH

Books and Beyond! Science for Preschoolers

April 7, May 5
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*

Young Scientist Program

April 23–May 14
Mornings, 9:30–11:30 a.m.
Afternoons, 1–3 p.m.

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. *Members \$115 non-members \$125*

Afterschool Adventures Science Friday: Kids Edition

Fridays, April 25, May 9 & 16
Drop-off between 3:15–3:30 p.m., pick-up by 5:15 p.m.

For kids who love “doing” science! This is an opportunity to explore science and nature using hands-on

experiences and real experiments. We will hypothesize, test, and observe, and use our creativity as well. Explore a different theme each week! For children in grades K-2. *Members \$85 non-members \$95*

Homeschoolers Series 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 various natural processes such as decomposition and energy cycles. The class includes both indoor and outdoor explorations, observations, and investigations. We will also use several types of microscopes and other tools to observe our world up close. Limit 14 children.

Members \$70 non-members \$77

ADULTS

Montshire Unleashed
Friday, April 4, July 19, 6–9 p.m.

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

Programs with fees requires pre-registration

FAMILY

Homeschoolers' Day

Friday, March 21

10 a.m.–3 p.m.

During this special day for homeschooler families, we will explore Earth science and processes including geology, weather, and forces of erosion.

Free with Museum admission

Special Event Days

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. You'll find gears, cams, linkages, speakers, motors, and other components that work together to form complex mechanical and electrical machines.

Free with Museum admission

Egg Drop Challenge

Saturday, April 12, 2 p.m.

Will a raw egg survive the harrowing 18-foot plunge over the second story balcony? Build a container that will protect your egg—either at home, or at the Museum from noon to 2 p.m. Then, it's "eggs away" as you launch your egg over the balcony.

Free with Museum admission

Super Science Saturdays

Super Science Days at the Montshire combine some hot topics with really cool activities. 10:30 a.m.–4 p.m.

Free with Museum admission

Up, Up, and Away

Saturday, July 12

Spend the day experimenting with the physics and fun of air. Make kites to fly outside in Science Park and capture the power of air by building gliders, rockets, and parachutes at the Science Discovery Lab. It promises to be an uplifting day!

MONTSHIRE SUMMER CAMP



"This is one of the most well-qualified, competent and professional group of counselors I've ever met."
—MONTSHIRE CAMP PARENT

Where Learning is Part of the Fun!

Montshire Summer Camp continues to enhance its offerings with ten unique camp programs. Along with some favorites such as Preschool Nature Camp and Upper Valley Adventures, this summer there are two new camps for youth entering 6th through 8th grade: Sketchbook Studio and Exploring Nature Through Art.

"We continue designing programs for kids from preschool to the early teen years that support their developing interests and skills in nature and science," says Amy VanderKooi, the Montshire's Walter Meriwether and Eleanor D. Furlow Summer Camp Director. "Learning and having fun are what camp is all about—and with the help of our skilled staff, we do a lot of both."

Register for one or more sessions. Save \$15 when you register for two weeks, and \$30 for three weeks. Montshire members receive special pricing. For details on camp programs or to register online, visit montshire.org/summercamp, call 802-649-2200, or stop by the Museum.

Nature: Up Close and Personal

Saturday, July 26

Outside, explore Montshire's forests, fields, and riverbanks—inside, take a closer look at the Museum's resident frogs, turtles, fish, bees, and ants. Outside we'll grab bug nets and magnifying glasses for an insect hunt near the meadow, and back at the Science Discovery Lab we'll use microscopes to get an up-close look at aquatic invertebrates from nearby ponds.

Splash! Exploring Water

Saturday, August 9

Spend a day at the Montshire celebrating summer by getting wet. Outside in Science Park try making boats that float down the "Rill." Test the strength of foil boats and experiment

with what floats and sinks. Then explore the science of water at the Science Discovery Lab. Investigate the properties of water, experimenting with density by making liquid rainbows, and see how colors behave in water. It promises to be a wet day both inside and out!

Microworlds: Investigation of the Very Small

Saturday, August 23

The Science Discovery Lab will be buzzing with activity as we explore an entire world of microscopic wonders. Using an array of magnifying instruments from hand lenses to compound microscopes, you can observe everything from the weave of a t-shirt to invertebrates in pond water, to the nuclei of your very own cheek cells. Discover a whole new world just hidden from the naked eye!

UPCOMING EXHIBITS

Only Owls

September 13 —December 7



Owls are magnificent creatures with exceptional characteristics. Their distinctive attributes – yellow eyes that enable keen vision used to hunt at dawn and dusk; peculiar facial discs that direct sound to ears on the sides of their heads; unique feather structure that allows nearly silent flight; and more—make them ideal subjects for artistic interpretation.

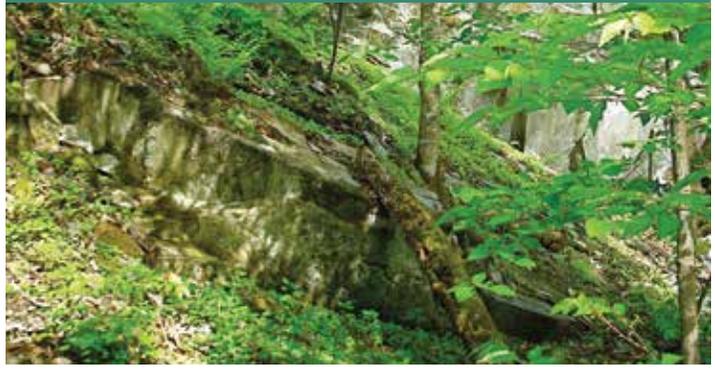
Only Owls brings together an array of artworks in pencil, charcoal, ink, watercolor, and woodcut drawn from the Woodson Art Museum’s collection. Each artwork provides insight into the fascinating world of owls and demonstrates a variety of stylistic approaches by thirty artists, including Leonard Baskin, Arthur Singer, Don Richard Eckelberry, Tony Angell, and Bart Walter.

SUSTAINABLE SHELTER

Visit before May 27



WOODLAND GARDEN



Calendar of Blooms

Montshire’s Woodland Garden provides visitors with exquisite natural beauty in a tranquil setting.

Winding along the short interpretive path you will be greeted with native wildflowers, flowering shrubs, towering trees, a variety of ferns, mossy rock outcroppings and a seasonal stream. This is a small sample of the treasures that await you in the Woodland Garden.

MID APRIL:
Early wildflowers blooming include rue anemone, Dutchman’s breeches, bloodroot and hepatica.



MAY: gives way to red trillium, foam-flower, mitrewort, and trout lily

LATE MAY:
Wild geranium, Solomon’s plume, and wild columbine are apt to bloom



JUNE: Begins with fragrant sumac, beardtongue penstemon, sheep laurel, and maple-leaf viburnum.

JULY: Keep an eye out for wild leek, black-eyed Susan, Virginia rose and elderberry



LATE AUGUST:
Look for cardinal flower, showy golden-rod, Northern blazing star

EARLY AUGUST:
Look for great blue lobelia, jewelweed, virgins bower





Take Apart Day

MARCH

- 21 Friday Night for Teen Tinkerers **Y**
- 21 Homeschoolers' Day **F**
- 29 Take Apart Day **F**

APRIL

- 4 Montshire Unleashed: An Evening for Adults **A**
- 7 Books and Beyond! Science for Preschoolers **C**
- 12 Egg Drop Challenge **F**
- 14 Gravity Makes It Go! **C**
- 14 All About Air **C**
- 17 Toy Cars **C**
- 23 Young Scientist Program, series begins **C**
- 25 Afterschool Adventures: Science Friday, series begins **C**



Water on in Science Park
April 26

MAY

- 1 Homeschoolers Series: Natural Explorations, series begins **C**
- 2 Fiddlehead Fling—Montshire's Benefit Auction **A**
- 5 Books and Beyond! Science for Preschoolers **C**
- 10 MCA Employee Appreciation Day **F**
- 12-14 MUSEUM CLOSED for exhibition installation
- 17 A T. rex Named Sue, exhibition opens **F**

A T. Rex Named Sue
Opens May 17

JUNE

- 23 Summer Camp begins
- 22 Summer food service in the Pavilion begins

JULY

- 12 Up, Up, and Away! **F**
- 26 Nature: Up Close and Personal **F**

AUGUST

- 9 Splash! Exploring Water **F**
- 23 Microworlds: Investigation of the Very Small **F**



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

Calendar



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, Christmas.

Phone: 802-649-2200

Web: www.montshire.org

Admission fees

\$14 adults, \$11 children ages 2–17.

Free for Museum members and children under the age of 2.

Summer rates (May 27–September 7)
\$16 adults, \$13 children ages 2–17

Non-Profit Org.
U.S. Postage
PAID
Permit No. 170
White River Jct., VT



Montshire Museum of Science
One Montshire Road
Norwich, Vermont 05055

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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.



FIDDLEHEAD FLING 2014

BENEFIT AUCTION
MONTSHIRE MUSEUM OF SCIENCE
FRIDAY, MAY 2
6 P.M.

www.montshire.org/auction