

MOR

WINTER 2023
JANUARY – APRIL

SEASONAL SNAPSHOT

Welcome to your glimpse into behind-the-scenes news as well as upcoming programming and events at your world-class museum.



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Back Pour and Roar



WINTER HOURS

Main Museum | 9 a.m. – 5 p.m.

Closed Jan. 1

Hours and days open are subject to change.



MUSEUM OF
THE **ROCKIES**

MONTANA STATE UNIVERSITY

Museum of the Rockies, Inc. is a
501(c)(3) non-profit organization.



Dear Members,

Another year closes and another begins. This past year was a great success for Museum of the Rockies and witnessed the addition of new programs, exhibits, and staff. As we look to 2023, we have several exciting projects underway.

Changing exhibits such as this winter's *Under the Arctic* and this summer's *DaVinci* explore science, history and culture in different ways. They help to bring the world to Montana and create inspirational experiences for members and the public at large. At the same time, we are quietly, but diligently working on our own paleo and history exhibits that will roll out in the next couple of years. Programs such as *Dinosaurs & MOR* will bring renowned paleontologists from around the country to share their groundbreaking research while also offering fun-packed workshops and activities for families. We also have a new history series run by our Living History manager called *Spotlight on History* (see details on page 14). And, the Education team is already preparing for our ever popular summer camps.

New this year will be the unveiling of our *Summer Solstice* event. While in its infancy, we see this as a wonderful way to celebrate the long and glorious days of summer in the Rockies. Inspired by a farm to table concept, the event will take place on our living history property. Imagine wonderful food and drink under a large tent with the 1889 Tinsley House as the backdrop. Now, imagine that we incorporate Italian cuisine in honor of DaVinci, and you have an idea of what *Summer Solstice in the Rockies: Viva l'Italia!* will be. Please come out and join us for this wonderful event that helps to raise critical funds for the museum's education programs, including our Opening Doors for Montana Schoolchildren Program and other access initiatives.

While the days are cold and often dark, there is always something fun and exciting at MOR. Sometimes this is even sultry like our Valentines event *Pour and Roar: Raptors and Romance*.

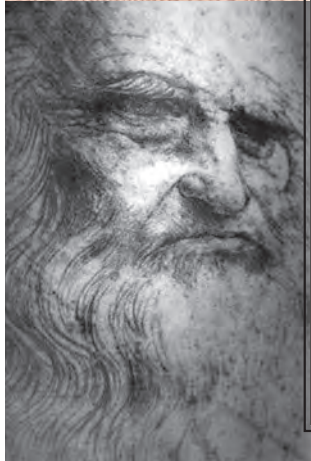
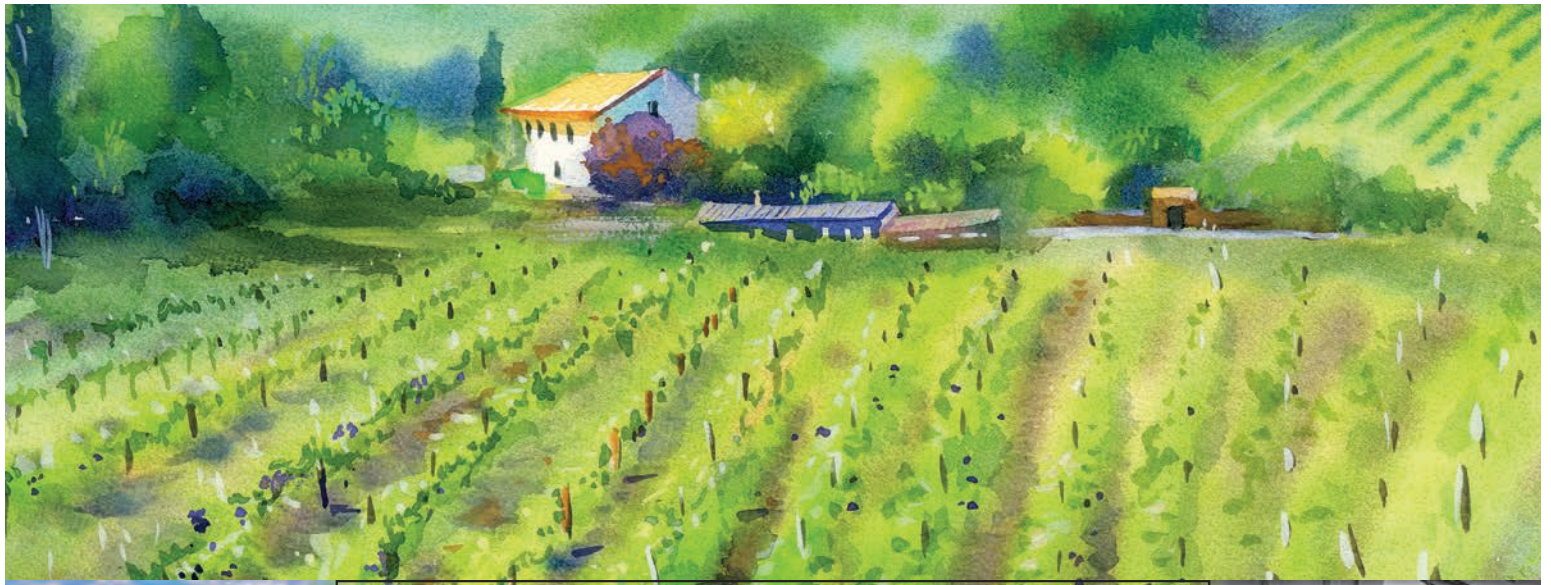
Whether you visit for one of our exhibits, family programs, or adult events, I hope to see you soon at your museum.

Best,

Chris

A handwritten signature in cursive script that reads "Chris".

Christopher Dobbs
Executive Director



Summer Solstice in the Rockies:

Viva l'Italia!

Thursday, June 22 – 6 p.m.

Museum of the Rockies reveals our 2023 signature event - Summer Solstice in the Rockies - a festive community celebration of the start of Summer that furthers our mission of bringing the world to Montana and sharing the Northern Rockies with the world.

The 2023 theme will be Viva l'Italia!, inspired by and celebrating our Summer exhibit about Leonardo da Vinci and his inventions, that will open on May 26 and run until September 3, 2023.

Enjoy a farm-to-table style dinner on our Tinsley Farm grounds that features delicious Italian cuisine and wine!

Learn about the history of Italian immigration in the Northern Rockies through our pasta-making and other cooking demonstrations, da Vinci-inspired games, and display of artifacts and photographs related to the history of wine making, mining, and railroads.

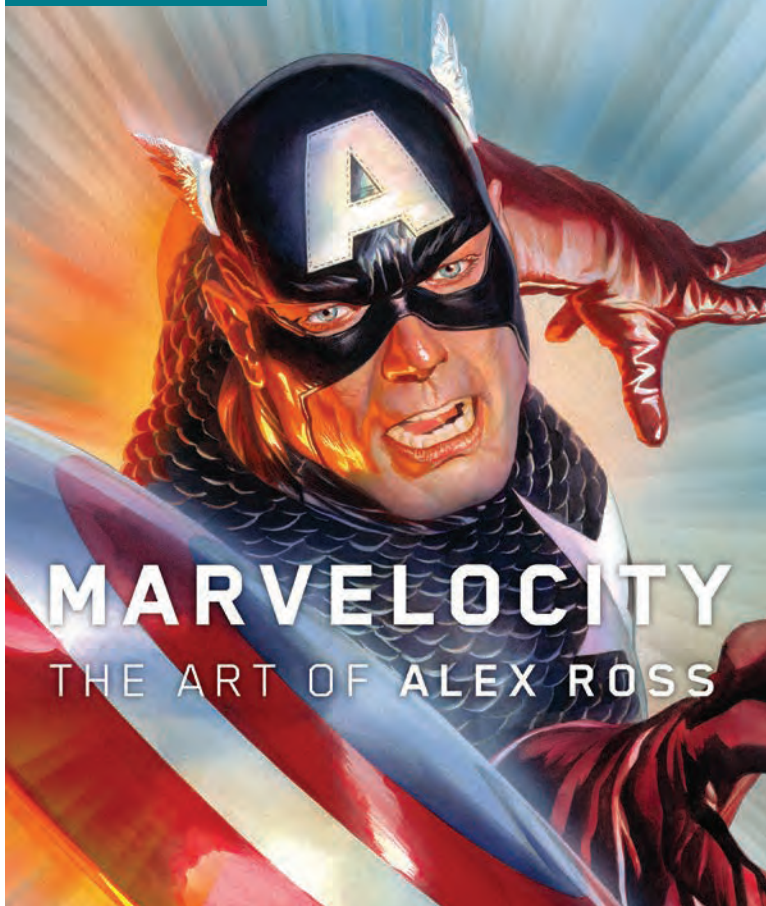
Ticket sales to be announced Feb. 1 on the event page museumoftherockies.org/events, MOR social media, and monthly member e-newsletters.

All proceeds from the dinner, sponsorships, raffle, and silent auction will support our access initiatives that ensure that Museum of the Rockies' educational programming serves all Montanans.



Opportunity Bank
OF MONTANA

MOR SPECIAL EXHIBITS



MARVELOCITY THE ART OF ALEX ROSS

JANUARY 28 THROUGH MAY 7

Considered one of the greatest artists in the field of comic books, Alex Ross has created some of the most iconic images known to fans today. For nearly 30 years, he has revitalized classic superheroes into works of fine art by illustrating characters including Spider-Man, Captain America, Iron Man, Storm from the X-Men, the Avengers, Black Panther, and many more.

In addition to highlighting original art from his most recent book, Marvelocity, visitors will also learn about how Alex Ross developed into a great illustrator through his childhood drawings, preliminary sketches, paintings, and 3-dimensional head busts of characters in the Marvel Universe. Hear first-hand from Alex Ross about the making of Marvelocity in an exclusive video interview. Kids (young and old) can catch up on their favorite comic book in our comic book nook.

Contributing Sponsor: The Hippely Family.
Underwriting Sponsors: Game On Comics;
Jamie and Leesha Ford.

Marvelocity: The Art of Alex Ross was developed by the Bess Bower Dunn Museum of Lake County, dunnmuseum.org



Double Exhibit Members Opening Reception

Friday, January 27
5:30 – 7:30 p.m.

**Come enjoy an icy treat
and a warm beverage.**



UNDER the ARCTIC Digging into Permafrost

JANUARY 28 THROUGH MAY 7

Have you ever seen a mammoth tooth up close? What does the Ice Age smell like?

Step into the shoes of climate science researchers, piece together clues, and solve engineering challenges posed by thawing permafrost in ***Under the Arctic: Digging into Permafrost***. This interactive exhibit weaves together authentic narratives from people whose lives have been impacted by the changing global climate, highlighting the resiliency and ingenuity of everyday communities.

Incorporating the sights and smells of the Western Hemisphere's only permafrost research tunnel and Ice Age fossils, ***Under the Arctic: Digging into Permafrost*** is an immersive exhibit experience for all ages

Supporting Sponsors: Donald and Beverly Clark,
and Contributing Sponsor: Larry and Gail Larson.

Under the Arctic: Digging into Permafrost was produced and is toured by the Oregon Museum of Science and Industry. The exhibit was developed in collaboration with the Geophysical Institute at the University of Alaska Fairbanks and made possible by a National Science Foundation (NSF) grant.

MOR DEPARTMENTAL INSIGHTS



On MOR's dinosaur digs students develop skills in field methods including excavation, data recording, and fossil collection. And of course, everyone gets plenty of experience with the classic paleontology tradition of making plaster jackets.

PALEONTOLOGY



Students Return to MOR's Dinosaur Digs

Lee Hall, Paleontology Lab & Field Manager

The 2023 dig season is fast approaching and amongst the flurry of activity to prepare for this year's looming dinosaur excavations is a growing crew list of students from Montana State University. The summer of 2022 heralded the return of students to Museum of the Rockies' dinosaur expeditions after a two-year hiatus. Covid-19 protocols saw MOR's 2020 and 2021 field crew essentially reduced to two people (myself and Dr. John Scannella). While we accomplished a good deal for an experienced duo (with help from Makoshika State Park rangers and interns), there was no comparison to the might of a full field team.

At MOR, we give students hands-on field training. It's a rare opportunity, especially for undergraduates. I was fortunate enough to spend my summers as an MSU student digging dinosaurs with MOR. I was directly mentored by museum professionals including legendary field paleontologist Bob Harmon. I even found a baby *T. rex*. Today, many of the specimens we excavated are exhibited in the museum's Siebel Dinosaur Complex. Some have helped shape our view of how dinosaurs lived and evolved.



MOR's legacy of mentorship is an important part of why I became the Paleontology Lab and Field Manager. Students have always been a structural pillar of paleontological fieldwork here. They learn fast, have an aptitude for teamwork, and are always ready to tackle a challenge. Training the next generation of paleontologists is both a tremendous privilege and a humbling responsibility. I have found few experiences more rewarding than witnessing our new recruits transform into confident and knowledgeable field technicians.

This summer, the badlands will once again become the training ground for freshly-minted field paleontologists. To those students who are reading this: come and join the fun. It might just change your life. It changed mine.



Marvelocity: The Art of Alex Ross.



Under the Arctic: Digging Into Permafrost.



EXHIBITIONS & TAYLOR PLANETARIUM



Think Spring Exhibits and MOR!

Scott A. Williams, Director of Exhibitions

Spring is coming (we hope!), and what better way to cure some cabin fever than to visit Museum of the Rockies and check out all the new exhibits! MOR will be debuting two new changing exhibits- ***Marvelocity: The Art of Alex Ross*** and ***Under the Arctic: Digging Into Permafrost***, from January 28 through May 7; and an extended temporary exhibit- ***Mesozoic Masterpieces: The Art of Douglas Henderson*** will open on March 3.

Marvelocity: The Art of Alex Ross showcases the immense talent of artist extraordinaire Alex Ross. Alex is an award-winning artist and is considered by many to be one of the greatest in the field of comic books and graphic novels. For nearly 30 years Alex has created

some of the most iconic images known to fans and revitalized classic superheroes into works of fine art by illustrating iconic characters like Captain America, Spider-Man, Iron Man, Black Panther, the Avengers, the Incredible Hulk, the X-Men, and many more.

In addition to highlighting original art from his recent book, *Marvelocity*, visitors will learn how Alex developed as an artist through his childhood drawings, preliminary sketches, paintings, and 3-dimensional busts of characters from the Marvel Universe. Hear first-hand from Alex about the Making of *Marvelocity* in exclusive video interviews. Kids, both young and old, can get their comic book on in the comic book nook section of the exhibit!



Marvelocity: The Art of Alex Ross.



Under the Arctic: Digging Into Permafrost.



Under the Arctic: Digging Into Permafrost

transports visitors to the Arctic using the sight and smells of the world's only permafrost research tunnel! Visitors step into the shoes of a climate science researcher in the Field Lab and solve engineering challenges posed by thawing permafrost. Through engaging exhibits, interactives, and videos, visitors learn about how the dramatic permafrost landscape provides clues to our past, present, and future, and consider realistic ways they can positively impact the environment.

In addition to these exhibits, MOR is excited to partner with renowned paleo-artist Doug Henderson to exhibit ***Mesozoic Masterpieces: The Art of Douglas Henderson***. This exhibit will feature over 30 original Doug Henderson paintings, some of which were used in the famous book *Maia: A Dinosaur Grows Up*. These paintings will feature iconic dinosaurs from the 75-million-year-old Two Medicine Formation and will be supplemented with key MOR dinosaur fossils and casts that relate to the artwork.

Lastly, there are several updated and new shows for our

Taylor Planetarium! You can expect an updated *Montana Skies* narrated show where you will see Orion and the nearby nebulas; Taurus; supernovas, and so much more. *Chasing the Ghost Particle* has stunning simulations of the most energetic places in our universe, and the galaxies around us are the prelude to a thrilling journey inside the Antarctic particle detector. *Secrets of the Cardboard Rocket* is an adventure with two children and their navigator, a talking astronomy book, traveling to visit the sun, the planets, the moon, and more. Finally, there's *Black Holes: The Other Side of Infinity*, narrated by Academy Award-nominated actor Liam Neeson. This cutting-edge production features high-resolution visualizations of cosmic phenomena, working with data generated by supercomputer simulations, to bring the current science of black holes to the planetarium. Visit the MOR website for the full Planetarium schedule.

We hope that three new exhibits and four planetarium shows help cure your cabin fever and that MOR is your destination for adventure, discovery, exploration, and fun!



Mesozoic Masterpieces: The Art of Douglas Henderson.

Under the Arctic: Digging Into Permafrost.



John "Jack" Horner



Friday, April 14 and Saturday, 15

We are all looking forward to **Dinosaurs & MOR** a national gathering of leading paleontologists in 2023 that will bring together hundreds of people and feature renowned scientists from around the country. This two-day event for both adults and families with children will feature a range of activities to celebrate the science of paleontology, including a keynote talk from **John "Jack" Horner**, Presidential Fellow at Chapman University, former Curator of Paleontology at MOR, and scientific advisor to the Jurassic Park and Jurassic World Series.

Members-Only Appreciation Night

Friday, April 14 | 5:30 – 8 p.m.
Free to Members

Dinosaurs and MOR kicks off on Friday evening with a **Members-Only Appreciation Night**. Renowned paleoartist and dinosaur graphic novel author Ted Rechlin will screen a preview of *The Tale of Horns and Teeth!*, an animated film that he is producing for MOR. Right after the premiere hang around for a panel discussion with Ted, MOR Paleontology Curator Dr. John Scannella, and Director of Exhibitions Scott Williams on how the film was made, what does the science say and what is speculation? This event is free to Members.

Dinosaurs & MOR Family Day

Saturday, April 15 | 9 a.m. – 5 p.m.

Saturday's Dinosaurs and MOR events offer something for all ages and interest levels. Families will enjoy paleo-passport activity stations throughout the Siebel Dinosaur Complex, the Dinosaur Prophecy show in the Planetarium, and several dino-tastic workshops led by MOR educators. Adults (and perhaps some families) will enjoy 10 paleontology presentations from world renowned paleontologists. There will be several opportunities to bid on special paleontology-themed collectibles during the presentations, from fossil casts to signed books, posters, and more!

For information about tickets and registration, please see our website starting Feb. 1 at museumoftherockies.org/signature-events/dinos

DINOS & MOR Presenters:

Dr. Brandon Peacock, Assistant Professor & Assistant Curator of Biology, Idaho State University

ReBecca Hunt-Foster, Curator and Park Paleontologist, Dinosaur National Monument, Jensen, UT

Dr. Laura Wilson Brantley, Associate Professor of Geosciences for Fort Hays State University and Chief Curator-Sternberg Museum, Fort Hays, KS

Dr. Kristi Curry Rogers, Professor of Biology and Geology, Macalester University, MN

Dr. Denver Fowler, Curator of Paleontology, Badlands Dinosaur Museum, Dickinson, ND

Dr. Dana Rashid, Assistant Research Professor, Montana State University

Dr. Lindsay Zanno, Associate Research Professor of Biology at North Carolina State University & Division Head at NC State Museum of Natural History, Raleigh, NC

Dr. John Scannella, John R. Horner Curator of Paleontology, Museum of the Rockies

Dr. Thomas Carr, Associate Professor of Biology, Carthage College, Kenosha, WI

Dr. Kathryn Krasinski, Assistant Professor of Anthropology, Adelphi University, Garden City, NY

Family-Friendly Fossil Workshops

Saturday, April 15 | 10 a.m. – 5 p.m.

Four workshops will be offered: paleo drawing, diorama making, and cast painting. **See page 16 for more detail.**

Dinner with Keynote speaker, John "Jack" Horner

Saturday, April 15 | 7 p.m.

Dinosaurs & MOR wraps with our Saturday evening paleontology dinner and keynote presenter, John "Jack" Horner, Presidential Fellow at Chapman University, recipient of two honorary doctorates, and former Curator of Paleontology at MOR. Jack's talk will be *"How the MOR Vertebrate Paleontology Collection Came to be: A Curatorial History."*



Museum of the Rockies's Touring Coach "Morning Glory." She is scheduled for full restoration to her original 1898 glory!



Photo Courtesy of David Swingle, 2013.

Red coach: Touring Coach "Calcite." Restored by Rawhide Johnson, Cody, WY. This is a sister coach to MOR's "Morning Glory."



CULTURAL HISTORY



Big Plans for Morning Glory!

By Michael Fox, Curator of Cultural History

As the Curator of Cultural History here at MOR, I am often asked, "What is your favorite artifact in the history collection?" That's a tough one because I really love

them all and know the stories of the objects in our collection that make them all so special. I have to say, though, that there is an artifact that does hold a special place in my heart—our Monida and Yellowstone touring coach.

Our coach was purchased by the Monida and Yellowstone (M-Y) Transportation Company in 1898 and is one of the 40 coaches the company obtained to start their business in the park. The M-Y coaches were all painted a deep maroon color, and the company was accordingly known as the "Red Line." Additionally, all coaches on the line were named after features or locations in the park. Ours is the "Morning Glory," and she once had her name painted on the driver's box. You might notice that Morning Glory is painted blue rather than red.

That is because later owners repainted the coach, but luckily, they kept the Monida and Yellowstone name on the side. Margaret Grand and Charles Meyer donated Morning Glory to the museum in 1973.

We are proud to announce that Morning Glory will be restored to her former glory this spring, when master wagon restorer Rawhide Johnson will move the coach to his workshop in Cody, Wyoming. As Vice President of the National Stagecoach and Freight Wagon Association, Rawhide has restored several Yellowstone coaches and is the foremost expert on their history, construction, and restoration. His work and attention to historical detail are well known.

We in the Cultural History Department are thrilled with this project and look forward to seeing Morning Glory wearing a new coat of paint and fully restored running gear! We expect to see her back in the museum in late 2023.

If you are interested in donating to support this remarkable restoration, please contact patricia.erikson@montana.edu

DEVELOPMENT & MEMBERSHIP



Serving the Community: MOR Partners to Create Access Initiatives

**Patricia "Tricia" Erikson, Director of
Development & Membership**

As a 501(c)(3) nonprofit institution, Museum of the Rockies develops and maintains partnerships that help ensure that all Montanans can benefit from our educational services, particularly those who would not otherwise be able to afford it or who face significant barriers. MOR serves its community by making the museum's educational mission accessible to all. Here are just some examples of our access initiatives:

Opening Doors for Montana

Schoolchildren: School groups from across the state of Montana are admitted free of charge to MOR (with an advanced reservation) thanks to generous donations from individuals, foundations, and corporations. Free programs include guided tours and planetarium shows.

Head Start Family Memberships: MOR grants memberships to Head Start families from three different counties. This provides these families with the opportunity to access our early childhood education programming, as well as all other exhibits and educational programs.

Admission Scholarships: MOR grants free admission to clients from a range of our partner non-profit service providers locally, including: mental health services, homeless shelters, family reunification programs, senior centers, and educational programs for students with life-threatening illness or sensory or learning differences, including autism.

Montana Day: New in 2023, Montana Day, on February 25 is a day set aside for free admission to all those with Montana residence. This is a celebration of our community and Montana heritage.

*For more information, please contact
patricia.erikson@montana.edu.*

New Faces in Development: Fundraising Events Manager Leonardo Marra

Buongiorno, my name is Leonardo, from Rome, Italy. I have recently moved to Bozeman and joined MOR.

My passion for events goes back to my tenure at the Vatican, where I learned the importance of preparation from inspiring role models and through my personal involvement in historical ceremonies, like the Conclave for the election of the Pope. During the span of a decade, I was also trusted to conduct research on ceremonial artifacts, which led me to develop a new archival system within the Papal Sacristy. This unique experience preceded my involvement in a non-profit humanitarian institution operating through diplomatic channels, whose goal is the care of people in need across the globe and where I was appointed Director of International

Events. In that capacity, I worked events in more than twenty countries.

Between these two Institutions, I went from working in a museum environment to organizing and managing events of all kinds, official visits and State Protocol, with lots in between! Thanks to this fortunate career path, I developed a passion for events and gained a true appreciation for diverse peoples, cultures, traditions and views.

Today, looking at this new chapter of my life in Big Sky Country, I feel very lucky to work in such a beautiful museum space amid competent and



fun colleagues, passionate members and generous donors and sponsors, all part of our big MOR family.

Creating the right scenario and atmosphere through an event, is what gives me a true sense of fulfilment, but if one had to ask me what I value the most in my profession, I would

answer with no hesitation: human relationships. Events are the perfect setting for me to express what I truly believe: that every person is unique. Back in Italy, somewhere in another country, or here in Montana, I always keep focus on the human side to make every event and every day a one-of-a-kind!

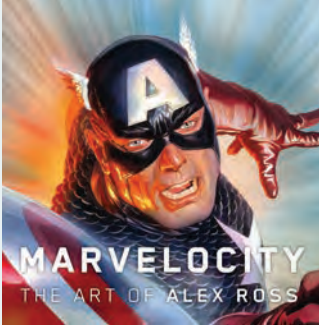


Cosmos & Coffee

A Member-only Series of Events
January 12th | 7:30 – 9 a.m. Bair
Lobby & Taylor Planetarium

Come and meet other MOR members over coffee and donuts, enjoy a sneak peek at what's new in the Cosmos, and be on your way by 9 a.m.! This 7:30 a.m. event will show *Black Holes: The Other Side of Infinity*.

Don't miss this member-only opportunity to view this program. Following the show, Taylor Planetarium program manager Eric Loberg will discuss the most recent scientific discoveries about black holes.



Marvelocity: The Art of Alex Ross.



Under the Arctic: Digging Into Permafrost.

Marvelocity: The Art of Alex Ross and Under the Arctic: Digging into Permafrost.

January 27 | 5:30 – 7:30 p.m.

Double Exhibit Member Opening Reception | Come enjoy an icy treat and a warm beverage.

Meet and greet Creative Director of Rextooth Studios, Ted Rechlin. Ted is the author and illustrator of award-winning graphic novels, including *Jurassic*, and *Sue: Welcome to the World of Tyrannosaurus Rex*. Learn about his process of creating comic art and draw your own through a guided activity. To celebrate *Under the Arctic, Digging into Permafrost*, explore snow science and Ice Age fossil discoveries through hands-on activities and demonstrations.

Special Thanks to *Under the Arctic* Supporting Sponsors: Donald and Beverly Clark, and Contributing Sponsor: Larry and Gail Larson.

Marvelocity Contributing Sponsor: The Hippely Family.
 Underwriting Sponsors: Game On Comics; Jamie and Leesha Ford.

Observe the Moon

A Free Member-only Series of Events | March 31st |
6:00-9:00 p.m. Bair Lobby & Taylor Planetarium

Come explore the night sky and observe craters and mountains on the moon. View the moon outside the museum with telescopes and view the *Forward to the Moon* planetarium show. Museum educators will provide activities for your young explorers. Light snacks and drinks will be provided. This family-friendly event is capped at 100 members and pre-registration is required to ensure access to the telescopes.

For more information: Contact members@montana.edu



View of the Vault, a Series Appreciating Philanthropic Levels of Membership

By invitation | Pre-registration required | Please watch your email. 20 spaces available per day.
First come first served!

Our philanthropic levels of membership called Curator's Circle and Director's Guild entail additional benefits, but they also support Museum of the Rockies by contributing to our museum access initiatives for families who could not otherwise afford to purchase memberships or admission. Thank you!

Doing It With Style: Historic Clothing of the Northern Rockies

Tuesday, February 21st and

Thursday, February 23rd - 3:00 to 5:00 p.m.

MOR Curator of Cultural History Michael Fox, and Registrar and Collections Manager Melissa Dawn will lead a small group of participants to help them learn about men and women's regional costumery from circa 1864, 1880-1920s, and 1950s-1960s including swimming suits, undergarments, hats, military uniforms, and footwear.

This behind-the-scenes experience will take you on a private tour through these exclusive collections, exceptionally on display in our LEED Gold Certified two-story Curatorial Center for the Humanities, where visitors are usually not allowed, and housing more than 300,000 artifacts among history, art, photography and archaeology collections.

For more information please contact Leonardo Marra at: leonardo.marra@montana.edu

Behind the Scenes with the Tyrant King

Monday, April 3rd and Monday,
April 10th - 6:00 to 8:00 p.m.

Few creatures have inspired as much awe and terror as *Tyrannosaurus rex*. Museum of the Rockies houses one of the largest collections of *T. rex* in the world, but not all of these fossils are on exhibit. Join MOR's John R. Horner Curator of Paleontology Dr. John Scannella and Paleontology Collections Manager-Registrar Eric Metz in a special visit to the museum's Paleontology Collections where you will encounter *T. rex* fossils that have never been on display. Learn the science behind the growth, evolution, and behavior of one of the largest carnivores to ever walk the Earth in a setting rarely visited by the public.

For more information please contact Leonardo Marra at: leonardo.marra@montana.edu



Peter Mousseau, Museum of the Rockies' new Living History Manager.

EDUCATION & PUBLIC PROGRAMS



New Faces, New Programs

Chelsea Hogan, Director of Education and Public Programming

As we embark on a new year, I am so excited for all that lies ahead.

MOR Education is thrilled to welcome Peter Mousseau to our team as the new Living History Manager. Peter has worked at various historical sites over the years, from Fort Mackinac to the Smithsonian Museum of American History. As Living History Manager, Peter will focus on expanding the interpretation and training at the Living History Farm and creating history-based educational programming throughout the museum. Don't miss Peter's debut program, *Spotlight on History*, and go on a journey through time while diving deep into one object from the history collection with Peter in the history galleries.

Our new changing exhibits offer unique opportunities to engage audiences across the spectrum of STEAM (Science, Technology, Engineering, Art, and Math). Join us to celebrate

the achievements of women in the sciences on Women in Science Day, a multifaceted program that complements the provocative *Bearded Lady Project* exhibit. Get inspired by original drawings of Marvel's iconic superheroes through *Marvelocity*, then create your own comics under the guidance of a professional comic artist. Through *Scientist Saturdays*, a new family drop-in program aligned with our changing exhibit themes, meet real regional scientists, and explore their groundbreaking research.

With current temperatures below zero, it's hard to believe that we are planning for summer 2023. As in previous years, MOR members get early access to summer camp registration. Last year, all eight weeks of camp sold out to members in 10 minutes, so don't delay.

This winter, come in from the cold and find warmth through STEAM programming at MOR. Though the temperature may be low, my hopes are high for the new year.



The Bearded Lady Project: Challenging the Face of Science.



Marvelocity: The Art of Alex Ross.

MOR TAYLOR PLANETARIUM



Phantom of the Universe



Secret of the Cardboard Rocket



Chasing the Ghost Particle

Join us for a breathtaking view of the cosmos!

January 2 – January 13

Monday – Friday

- 12 p.m. | *Montana Skies*
- 1 p.m. | *Phantom of the Universe*
- 2 p.m. | *Montana Skies*
- 3 p.m. | *Phantom of the Universe*

Saturday & Sunday

- 10 a.m. | *Secret of the Cardboard Rocket*
- 11 a.m. | *Phantom of the Universe*
- 12 p.m. | *Chasing the Ghost Particle*
- 1 p.m. | *Phantom of the Universe*
- 2 p.m. | *Chasing the Ghost Particle*
- 3 p.m. | *Phantom of the Universe*

January 14– May 26

Monday – Friday

- 12 p.m. | *Montana Skies*
- 1 p.m. | *Black Holes: The Other Side of Infinity*
- 2 p.m. | *Montana Skies*
- 3 p.m. | *Black Holes: The Other Side of Infinity*

Saturday & Sunday

- 10 a.m. | *Secret of the Cardboard Rocket*
- 11 a.m. | *Black Holes: The Other Side of Infinity*
- 12 p.m. | *Chasing the Ghost Particle*
- 1 p.m. | *Black Holes: The Other Side of Infinity*
- 2 p.m. | *Chasing the Ghost Particle*
- 3 p.m. | *Black Holes: The Other Side of Infinity*

MONTANA SKIES

Enjoy an original Taylor Planetarium show that is recommended for ages 10+.

This live narrated show will cover the stars and planets you can see in the skies this evening. You will see Orion and the nearby nebulas in the sky, Taurus and supernova remnants, and much more!

PHANTOM OF THE UNIVERSE

Immerse yourself in the search for dark matter as protons race through the world's largest particle collider in Europe to up-close views of the Big Bang and emergent cosmos. Narrated by Tilda Swinton and recommended for ages 10+.

CHASING THE GHOST PARTICLE

Stunning simulations of the most energetic places in our universe, and the galaxies around us, are the prelude to a thrilling journey inside the Antarctic "IceCube" particle detector, looking for traces of neutrino collisions in the ice. Recommended for ages 8+.

SECRET OF THE CARDBOARD ROCKET

Adventure through the solar system in the Cardboard Rocket! Travel with two children and their navigator, the talking astronomy book. Visit the Sun, the planets, the Moon and more. Recommended for our youngest viewers, up to age 8.

BLACK HOLES: THE OTHER SIDE OF INFINITY

Narrated by Academy-Award nominated actor Liam Neeson, this cutting-edge production features high-resolution visualizations of cosmic phenomena, working with data generated by supercomputer simulations, to bring the current science of black holes to the planetarium. Recommended for ages 8+



Montana Skies

MOR ADULT PROGRAMMING

Presenting Prehistory: A Paleontology Lecture Series

Hager Auditorium | 5:30 – 7:30p.m.
Members: Free, Non-members: \$7.50.
Refreshments provided post-lecture during speaker meet-and-greet.

Discoveries made by paleontologists continue to shed new light on the deep past of the planet and the creatures that arose here. MOR's Presenting Prehistory Paleontology Speaker Series explores recent findings and current hypotheses as conveyed by scientists who are actively exploring how life on Earth has changed through time and what the fossils of extinct organisms can teach us about the world today. Reserve your ticket: museumoftherockies.org.

Wednesday, February 1 | *Floating Caiman Nests and Drowned Cows: Actualistic Taphonomy and the Fossil Record*

Dr. David Varricchio, Professor of Earth Sciences. What can we learn about dinosaur behavior from fossil assemblages of bones and eggshell? Join Dr. David Varricchio in examining modern nesting sites and mass drownings to explore what they might tell us about the lives of dinosaurs.

Wednesday, March 1 | *Insight into the Evolution and Lifestyle of Early Bears Based on a New Species from North Dakota*

Dr. Clint Boyd, Senior paleontologist of the North Dakota Geological Survey. The early bear fossil record is poorly sampled, providing little insight into the preferred diet, habitat, and locomotion of the first bears to evolve in North America. In this presentation, Dr. Clint Boyd discusses study of the nearly complete skeleton of a housecat-sized early bear relative from the Oligocene (~32 million years ago) of North Dakota that provides detailed insights into the anatomy and lifestyle of one of the most iconic carnivores alive today.

Wednesday, April 5 | *The Ultimate 'Iffysaur': The Story of An Unusual Ichthyosaur Composite*

Ashley Hall, Outreach Program Manager. Ichthyosaurs, or "dolphin-shaped" marine reptiles, swam the seas for 160 million years and are known for their exquisite and complete preservation in the fossil record. Join Museum of the Rockies Outreach Program Manager, Ashley Hall, as she tells the story of how one seemingly complete ichthyosaur specimen was discovered to be an amalgamation of multiple skeletons from two different European countries, including one very rare specimen. How does fossil forgery happen and what can we learn from these "Frankenstein" fossils?

Wednesday, May 3 | *Fossils on the Cutting Edge: Three Decades of Paleohistology at Museum of the Rockies*

Ellen-Thérèse Lamm, Paleontology Histology Lab Manager. For over thirty years, the bones of *T. rex*, *Triceratops*, and hundreds of other fossil specimens have been sectioned in the underground Paleohistology Laboratory at Museum of the Rockies. Join Histology Lab Manager Ellen-Thérèse Lamm to explore MOR's history as one of the leading centers in the world for investigating fossils at the microscopic level. Learn how this 'cutting-edge' research has helped define our understanding of dinosaur growth, health, and behavior.



Ellen-Thérèse Lamm, Paleontology Histology Lab Manager. Photo by Holli Connell.



The Bearded Lady Project.

Women in Science Day and Bearded Lady Project Film and Panel Discussion

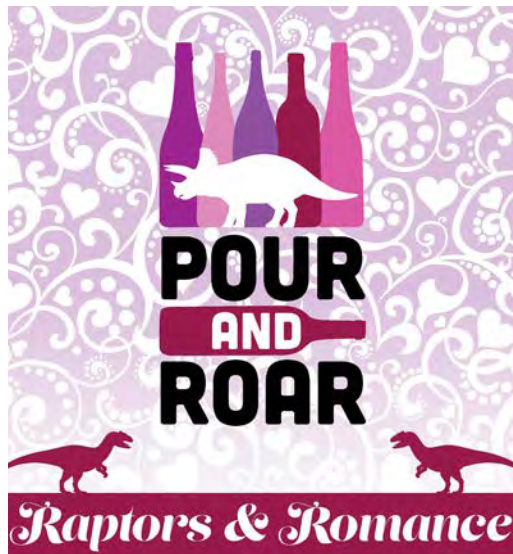
Saturday, February 11 | 10 a.m. - 4 p.m.
Free with admission

On the International Day of Women and Girls in Science, actualized by UNESCO and UN-Women, join us to engage in a variety of family-friendly activities from local women in STEM, a book signing by paleontologist and PBS Eons host and paleontologist Kallie Moore, as well as a screening of the short documentary film *The Bearded Lady Project: Challenging the Face of Science*. Then, join us for an

eye-opening panel discussion about the struggles and successes of women in the geosciences with Lexi Jamieson Marsh and Dr. Ellen Currano, the masterminds behind the exhibition.

About the Bearded Lady Project

This film and accompanying photo exhibition demonstrate the competencies and passions of female paleontologists and how this unfair, gendered stereotype can be easily diminished with the donning of a beard. How, with some well-placed facial hair, any female scientist can be perceived as equally rugged, tough, and determined.



Pour and Roar: Raptors and Romance

Valentine's Day | Tuesday, Feb. 14
Age 21+ | 6 – 9p.m Members
 receive early registration | \$60

Join us for a prehistoric Valentine's date-night experience at Museum of the Rockies. We all know about the birds and the bees, but have you ever wondered how sauropods, the largest dinosaurs, mated? Enjoy wine tasting from Plonk and delectable appetizers, learn about dinosaur reproduction in a special lecture from MOR Lab and Field Manager Lee Hall; and from the museum's history collection, view adult-related historical objects with Curator of History, Michael Fox. In addition, view a special show in the Taylor Planetarium about scandal in the stars. Don't miss this unique night!

Comics and the Notion of Identity, Dr. John Townsend-Mehler

Thursday, February 16
6:30-8p.m Free

Since Superman first appeared, approximately 85 years ago, the idea of identity in comics (secret identities, the formation of identity, etc.) has been a hugely central theme. This talk will explore the perception of identity in comics, how it has evolved over time, and why it is important. Dr. Townsend-Mehler grew up in Oregon and Michigan. He moved to Bozeman with his family 10 years ago and began teaching at MSU. He is the Lab Coordinator for the Ecology Department at MSU and teaches courses on both Entomology and comics.

Complete History of the Marvel Universe, Douglas Wolk

Thursday, April 20 | 6:30-8p.m Lecture and book signing | Free



Douglas Wolk read all 27,000-plus Marvel superhero comics from 1961 onward, then wrote a book about the experience, "All of the Marvels." In this lecture, he will condense Marvel's half-million-page story down to a single lecture and slideshow, highlighting the mega-narrative's central themes and pivotal moments.

Douglas Wolk is a pop culture critic, teacher and writer, and the author of *All of the Marvels*, *Reading Comics* and *33 1/3: Live at the Apollo*. Wolk has been a National Arts Journalism Fellow at Columbia University and a Fellow in the USC Annenberg/Getty

Arts Journalism Program. Currently, he teaches comics history at Portland State University.

Extreme History Project Lecture Series

Various dates | 6 - 7p.m. | Hager Auditorium | Free

MOR is pleased to host the Extreme History Project lecture series that encourages public understanding of the way our history has shaped our present. Speakers will take a fresh look at interesting historical topics. Visit extremehistoryproject.org for full lecture descriptions. No registration required.

Gallatin Valley Friends of the Sciences: Science Inquiry Lecture Series

Various dates | 7 - 8p.m. | Free

Join MOR and the Gallatin Valley Friends of the Sciences as we explore cutting-edge science topics, their latest developments, and their relevance to society through speaker presentations followed by an engaging question and answer session. Virtual presentation may be substituted depending on the state of the pandemic; for lecture details, visit gallatinscience.org. No registration required.

Drawing Workshop: Art of the Superhero

Wednesday, March 8 | 5:30-7:30PM | Redstart Classroom | \$25 members, \$35 non-members

BAM! POW! Get your pencils ready! In this drawing workshop, learn how to craft your own page in the style of a graphic novel from Jade Lowder, adjunct professor at MSU's School of Art and Architecture and published comic book artist. Jade will walk you through panel by panel, the ins and outs of visual storytelling in his own dynamic, comic form. Suggested for teens and adults.

NEW! Spotlight on History

Join us for short explorations of single artifacts from our History Collection with Living History Manager, Peter Mousseau. Learn about the fascinating, strange, and historic stories behind our specimens and their place within Montana history.

Beavers: Furry Gold

Saturday, Jan 7: 11am, 1 & 3pm Paugh History Hall | Free

Get an inside look at the fur trade through the lens of a single beaver pelt. What did it take to acquire a beaver pelt and what were they used for? Learn how this small mammal made a large impact on westward expansion and the development of Montana as a state.

Rifle of the West

Saturday, Feb 4 | 11a.m, 1 & 3p.m Paugh History Hall | Free

Examine the impressive rifled "cannon", or rifled 3-pound gun, and its history. How did it end up in Bozeman from its origins on the East Coast and how did Museum of the Rockies acquire it? During this spotlight talk, learn how to fire and reload the artillery piece just like a Civil War era soldier.

MOR YOUTH & FAMILY PROGRAMMING



Sensational Babies.

Sensational Babies

**Meets Every Wednesday | 10 – 11a.m. and 1 – 2p.m.
Friday | 10 – 11a.m. | Redstart Classroom | Ages birth – 3
Free with membership or museum admission.**

Read, talk, sing, and play with your baby through sensory awareness activities, art, music, and other gross and fine motor explorations designed specifically for newborns to age 3. This popular Museum program promotes learning language skills with physical and social development and is a great opportunity to connect with other parents and caregivers. Siblings are always welcome. The same program is offered several times per week to accommodate more families. No registration required.

Tours for Tots

Meets Alternating Weeks | Tuesdays 1 – 2p.m. | Redstart Classroom. | Ages 3-5 | Free with membership or museum admission.

Have a naturally curious preschooler (ages 3 – 5) that loves exploring science, history, and art? This series of tours and classes examines different areas of the museum with an early education focus. Each program offers a chance to ask questions as we explore each subject with a hands-on activity, art project, and related story. No registration required.

Preschool groups are welcome to participate in the Museum's School Field Trip programs, which can accommodate a larger group size. Please email visitMOR@montana.edu at least three weeks in advance to arrange your visit.

Explore Yellowstone in the Martin Children's Discovery Center

**Daily 9:30 a.m. - 12:00 p.m., 1:00 p.m. - 4 p.m.
Closed on holidays and January 3rd – 5th for annual maintenance. Hours subject to change depending on staffing. | Included with membership or museum admission**

STEM Fun Night

Tuesday, March 7 | 5 – 9 p.m. | Free with advance registration for Science Olympiad participants.



Celebrate Science, Technology, Engineering, and Math with Museum of the Rockies! Enjoy Planetarium shows, live animals, hands-on activities, and pizza! MOR is excited to host this annual event, special for Science Olympiad participants and teachers. With over twenty program partners

including ten Montana State University programs, and statewide partners like Zoo Montana, this program serves over 500 students each year.

For information about the Montana Science Olympiad, please visit: <https://www.montana.edu/smrc/mtso>.

Homeschool Mondays

**Alternating Mondays, January through May 2022.
Free for homeschooling families. | Registration is required online at museumoftherockies.org.**



Museum of the Rockies believes that every Montana child, regardless of income or geography, should have the chance to stare down a *T. rex*, discover Montana's pioneers, or experience the wider world through our changing exhibits. To ensure the museum is accessible for homeschool students, MOR offers limited, free admission on a monthly

basis for homeschool families. Homeschool families may make reservations to visit Museum of the Rockies once per month and engage in museum learning through a self-guided, thematic scavenger hunt. Museum members do not need to register as homeschool families. Members are welcome to reserve their daily admission through the museum's regular admission pages. Admission is free for students and one chaperone. *There will be no Homeschool Mondays on National Holidays.

Scientist Saturdays

Included with museum admission

Montana is full of exciting science that happens right in your backyard! On select Saturdays in the main lobby, meet a Montana scientist and learn about their area of specialization. Researchers will be displaying real specimens, artifacts, and touchable items that will be sure to spark curiosity in the natural world. From snow science to paleontology, there are so many interesting subjects for everyone to enjoy!

Earth Sciences with Dr. Johan Erikson Saturday, January 28th | 12p.m – 3p.m

Dr. Johan Erikson is currently the Executive Director of the Montana Outdoor Science School (MOSS). With a seasoned academic background, Johan earned an MS in geology at Stanford University and PhD in geology at Dartmouth College. Johan has published nearly 20 geologic research papers. His research interests include the accumulation of pollutants in mountain snowpack, and Jurassic through Cenozoic geology. Outside of academics, Johan is a marathon Nordic skier, trail runner, and certified outdoor guide. Join Johan at Museum of the Rockies on January 28th to learn about the Earth Sciences and how the study of snow reveals valuable insight on climate change.

MSU Paleontology Laboratory with Zakaria J. Hannebaum | Saturday, February 25th | 12p.m – 3p.m

The Varricchio Family Paleontology Laboratory at MSU provides space and equipment for undergraduate and graduate students to prepare and study fossils as part of various research endeavors. Zakaria Hannebaum is an Undergraduate Researcher at Montana State University and the Lab Manager for the Varricchio Family Paleontology Laboratory at MSU. Zakaria's research focuses on understanding the taphonomic processes affecting the preservation of the small dinosaur called *Orodromeus* along with analyzing the population dynamics of this species throughout the Two Medicine Formation in Montana.

Marvelocity: The Art of Alex Ross Family Day Saturday, | January 28 | 12p.m – 3p.m Included with admission

Calling all comic book fans! Join us for a MARVELous day of celebrations for the grand opening of our newest exhibitions, *Marvelocity: The Art of Alex Ross* and *Under the Arctic: Digging into Permafrost*. Bring the family and wear your favorite Marvel superhero costume, draw your own superhero at a comic book drop-in drawing program, and shop classic comic books.

Comic Book Writing Drop-in Program | Saturday, January 28th | 11p.m – 3p.m | Included with museum admission

Fly, swim, swing, or run as fast as you can to Museum of the Rockies for a superpower filled Saturday of comic book writing and illustrating. Create your own superhero, learn how to draw them in action, and write them to life in this family fun focused drop-in program.



Paleoartist Ted Rechlin.



Dinosaurs and MOR workshops

Paleoart Drawing Workshop with Ted Rechlin 10-11AM:

Learn how to draw dinosaurs with expert paleoartist Ted Rechlin. Ted is the author and illustrator of graphic

novel-style books including *Jurassic*, which won the silver medal for the graphic novel of the year from Foreword Reviews; and *Sharks: A 400 Million Journey*. Learn how to make your own dinosaurs come alive - on paper! Pre-registration required. All supplies provided.

Paleoart Drawing Workshop with Ted Rechlin 11:30AM-12:30PM:

Learn how to draw dinosaurs with expert paleoartist Ted Rechlin. Ted is the author and illustrator of graphic novel-style books including *Jurassic*, which won the silver medal for the graphic novel of the year from Foreword Reviews; and *Sharks: A 400 Million Journey*. Learn how to make your own dinosaurs come alive - on paper! Pre-registration required. All supplies provided.

Mini Dinosaur Diorama Workshop 2PM-3PM

Make your own mini dinosaur diorama in this fun workshop! Learn how paleontologists reconstruct paleoenvironments with Outreach Program Manager, Ashley Hall, and then craft your own mini diorama scene using tiny dinosaurs, rocks, plants, and a real paleoart backdrop panel by famed paleoartist Douglas Henderson. Recommended for children with adult supervision, teens, and kids at heart (adults). All materials and museum admission included in workshop fee. Pre-registration required.

Paint Your Own Fossil Cast Workshop 3:30PM-5PM

What are fossil casts and why are they important? In this fun, family-friendly workshop, learn how paleontologists make a replica fossil from a real one, and how we use replicas for both science and education. Then, you will receive a fossil cast of your very own to paint and take home. All materials and museum admission included in workshop fee. Pre-registration required.

SUMMER CAMP 2023

Crafted for students entering 1st – 12th grade in Fall 2023. MOR's quality camps stimulate learning throughout the summer. Join us in our outdoor classrooms and experiment spaces to learn about history, science, and art. Meet new friends, create crafts, and play active games. Camps fill up fast, so make your summer plans today.

CAMPS

5-Day Camps run from 9 a.m. - 3 p.m., Monday – Friday. *For the week of July 4, the 4-Day Camps will run from Monday, Wednesday – Friday, 9 a.m. - 3 p.m. due to the observance of the Fourth of July holiday.

ONLINE CAMP REGISTRATION

Registration is online only at museumoftherockies.org/camps and opens for current Museum of the Rockies members on Monday, January 9 Non-member registration opens Tuesday, January 17.

PRICING AND PAYMENT

- 5-Day camps: \$275/camper for museum members, \$315/camper for non-members
- 4-Day camps: \$220/camper for museum members, \$250/camper for non-members

Week	1-2 Grade	3-5 Grade	6-8 Grade	9-12 Grade
June 19 - 23	Astronauts in Training/ Backyard Ballistics	Jr. Paleontologists		
June 26 - 30	Jr. Paleontologists	Astronauts in Training/ Backyard Ballistics		
*July 3 - 7, 5-7	Surviving Yellowstone/ Jr. Paleontologists	Art and Science		
July 10 - 14	Art and Science	Surviving Yellowstone	Fossil Fanatics	
July 17 - 21	NEW! Paleo Art		Surviving Yellowstone	Fossil Fanatics
July 24 - 28	Little Museum on the Prairie	NEW! Paleo Art		NEW Camp coming soon!
July 31 – August 4	History Hunters NEW!	Little Museum on the Prairie/ Monsters and Mysteries		
August 7 - 11	Monsters and Mysteries	Museum Masters/ History Hunters NEW!		

*No camp on July 4.



SUMMER CAMP DESCRIPTIONS

Astronauts-in-Training Grades 1-2, 3-5

Do you have what it takes to be an astronaut? We're calling on kids with the "right stuff" to join us on an out-of-this-world adventure, discovering how rockets work and how humans can live in space long term.

Jr. Paleontologists Grades 1-2, 3-5

What does it take to become a real paleontologist? How do fossils get discovered, prepared, and put on display? We will go through the entire process of paleontology in this camp, "discovering" and preparing a fossil and building a mini exhibit for display at MOR.

NEW! History Hunters Grades 1-2, 3-5

What historic hijinks and mysteries lurk in Montana's past? In this camp we will discover the stories of mountain men, gold seekers, homesteaders and more. Explore ancient artifacts and dust off forgotten manuscripts as we hunt Montana's historic treasures.

Backyard Ballistics Grades 1-2, 3-5

Look out! If it is flung, shot, launched, or thrown, it's ballistic. We will have an explosive time with spears, arrows, rocks, rockets (and potatoes?) in this exciting physics-based summer camp with plenty of hands-on projects.

Museum Masters Grades 1-2, 3-5

Try a little bit of everything that Museum of the Rockies has to offer. Each day we will dabble in a different topic - paleontology, space, history, engineering, and more, featuring the best bits and alternative projects from MOR's favorite camps.

Fossil Fanatics Grades 6-8, 9-12

Calling all future paleontologists! If you love fossils, this camp is for you. Spend a week at Museum of the Rockies immersed in learning about the museum's world-class dinosaur discoveries and learn the skills it takes to become a paleontologist. We will explore nearby fossil sites of interest and spend time outdoors exploring Montana's incredible geology. Lace up your boots and get ready to DIG in.

NEW! Paleo-Art Grades 3-5, 6-8

How do we know what the ancient Earth looked like? How would a dinosaur fit into the living environment around it? In this camp, express your creative self and your scientific mind as we paint, draw, sculpt and study the dinosaurs of ancient Montana.

Art and Science Grades 1-2, 3-5

You do not need to be an artist for MOR's art-specific summer camp! Projects will be inspired by our exhibits and collections and will include paleo art, modeling, watercolor, chemical reactions, and more. We will get creative and put the A in STEAM education.

Monsters and Mysteries Grades 1-2, 3-5

Is it science, pseudoscience, or movie magic? How can you tell if something is real or not? Explore strange topics like UFOs and aliens, Loch Ness monsters, and even look for Sasquatch, all while making a short film about our odd experiences.

Surviving Yellowstone Grades 1-2, 3-5, 6-8

Investigate the wide variety of science about Yellowstone! Learn what it takes to survive in its open wilderness! Meet microbes, plants, animals, and geysers, make Yellowstone-themed crafts, and much more in this camp all about the first National Park.

Little Museum on the Prairie Grades 1-2, 3-5

Step back in time at our Living History Farm and Bozeman of the late 1800s. Help around the Tinsley house with gardening, chores, making crafts, and playing the games of pioneer times.

NEW Camp for Grades 9-12 coming soon for this summer!

See members' email and website for details.



MUSEUM OF THE ROCKIES

MONTANA STATE UNIVERSITY
P.O. BOX 172720
BOZEMAN, MT 59717

406.994.2251
museumoftherockies.org



Pour and Roar: Raptors and Romance

**Valentine's Day | Tuesday,
February 14 | Age 21+ | 6 – 9p.m
Members receive early
registration | \$60**

Join us for a prehistoric Valentine's date-night experience at Museum of the Rockies. We all know about the birds and the bees, but have you ever wondered how sauropods, the largest dinosaurs, mated? Enjoy wine tasting from Plonk and delectable appetizers, learn about dinosaur reproduction in a special lecture from MOR Lab and Field Manager Lee Hall; and from the museum's history collection, view adult-related historical objects with Curator of History, Michael Fox. In addition, view a special show in the Taylor Planetarium about scandal in the stars. Don't miss this unique night!

Learn more at museumoftherockies.org/events