# DENVER MUSEUM OF NATURE & SCIENCE MAGAZINE SUMMER 2018

## INSIDE ///

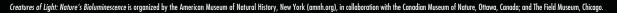
dead sea scrolls Mindbender Mansion Pandas 3d



## FINAL WEEKS!

# COME ON DENVEK, LIGHT NY FIRE

**GLOW TOWARD THE LIGHT. FREE FOR MEMBERS.** 





## DEAR MEMBERS:

This summer, it will be 110 years since the Denver Museum of Nature & Science opened its doors to the public. The Museum was officially incorporated in December 1900. In 1901, a site was selected for the new museum, on the highest hill in City Park, overlooking the Rocky



Mountains. Construction began, and the first two wings finally opened on July 1, 1908, with about 3,400 specimens in the collections. There were around 200,000 people living in Denver.

Today the Museum is one of the nation's renowned cultural institutions. Last year, the Museum served 1.8 million people onsite and beyond. There are 4.5 million objects and specimens in our collections. Yes, we're much bigger, but our mission hasn't changed much. We continue to strive to use research, collections, exhibits, and education to show how science is key to understanding and appreciating our world.

What has changed are some of the ways in which we conduct science, particularly how we include you in the process. Although for years the Museum has been fortunate to have hundreds of trained volunteers working with our staff in the research labs and collections areas, we now offer additional "citizen science" opportunities that involve even more people in our community.

The pages of this magazine feature some examples. Dr. Frank Krell needs more Japanese beetles for his research. Dr. Nicole Garneau is in the midst of a new "crowdsourced" project about taste. Dr. Paula Cushing shares how citizen scientists helped build an arachnid collection from scratch. And Dr. Michele Koons continues to include the community in exploring one of Colorado's most compelling archaeological sites. This type of engagement shows how science belongs to everyone, not just a few, especially in a world swirling with information.

Members, your commitment helps make the Museum an enduring part of not only the Denver community but the scientific community at large by furthering wonder and discovery. In 1908, Museum founder John Campion said, "A natural history museum is never finished." Indeed this is true, and together with you, we will continue to serve the public with the best that science has to offer for years to come.

earge Spark

**George Sparks** President and CEO

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## FIND IT @ DMNS.ORG

- Print-at-home tickets for surcharged exhibitions, Planetarium and IMAX shows, lectures, and programs
- Reservations for members events
- Museum science
- Heavens Above sky information
- Membership renewals and purchases

Join Our Community:



## ON THE COVER

From the zoology collections Orange oakleaf or Indian dead leaf butterfly (Kallima inachus) ZE.2972 (closed wing) ZE.2971 (spread wing) Southern and Southeast Asia With closed wings, this butterfly resembles a dry leaf, a spectacular example of camouflage.



### THANK YOU, BEETLES FANS

Okay, you're probably not a fan of Japanese beetles, which have become an ongoing nuisance in the Denver area. But many of you are science fans who answered the call last year from Dr. Frank Krell for samples of Japanese beetles (*Popillia japonica*).

"We got 2,235 specimens from 215 people, from Boulder to Pueblo. It was very successful," said Krell. "We now have a pretty good idea where the beetle occurs in the metro area and will watch to see whether it invades the Arvada-Broomfield area in the coming years."

Detailed field notes from many frustrated gardeners were attached to the beetle specimens, who reported the pests were decimating roses, raspberries, grapevines, geraniums, plum trees, pole beans, and more. One collector said, "A VERY rough estimate is that these beetles I am donating ... represent approximately 0.007% of the beetles we have destroyed." Lots of kids and families got into the action too, from Museum summer campers who collected in City Park, to two girls, ages 6 and 4, who collected in their south Denver yard.

How abundant will they be this year? "The winter wasn't severe which helps the beetles," said Krell, "But it also depends on the moisture we get during the spring. In general, the Japanese beetles are unlikely to become less significant from now on. The populations are too large and too widespread, and people continue to water their lawns, which creates the breeding ground for their offspring."

The 2017 data from the citizen scientists was used for a scientific paper soon to be submitted by Krell. He will collect samples this year, but only from places where the beetles were not found previously, such as Wheat Ridge, Arvada, Commerce City, Thornton, and Broomfield to Loveland.

If you would like to collect in these areas, please bring a few beetles to the Museum with a note with your name, location or address of collection point, and date. The beetles will be accepted alive in a container or bag, or in a vial or container filled with rubbing alcohol. Drop them off at the security desk inside the Staff and Volunteer Entrance on the north side of the building. Krell will continue updating a map of the beetle's distribution in the metro area at dmns.org/beetles.

## COMPOSTING AT THE MUSEUM

The Museum is now using a composting system. You will notice bins and signage in T-Rex Cafe to distinguish between compostable, recyclable, or trash. When in doubt, throw the item in the trash because we need to achieve less than 3 percent cross-contamination for the system to be effective. We appreciate you taking the time to participate in the program to help make our planet a little greener!



#### GET A TASTE OF SCIENCE

It's not too late to participate in this year's research project in the Genetics of Taste Lab! The Savory and Sour Study explores what happens to umami (the savory taste of protein) when increasing amounts of sour (the taste of acidity) are added, and whether small changes in one of the genes for umami detection might affect this interaction. Scientists know that small differences in DNA from one person to another can mean that some people taste bitter more strongly. What is less known is what happens when you mix two tastes together. Information about how sour can change the taste of something like umami, without such things as added salt, can help make food healthier. The experience takes about 30 minutes and is especially fun for friends and families to do together. Participants must be at least 8 years old (with a legal guardian if 8-17). To thank you, you will receive a packet with recipes to experiment with taste at home. Participating is free and available firstcome, first-served. The study closes on Saturday, August 3. To schedule an appointment, please send an email to genetics@dmns.org.

#### MEMBERS TIP

2D glasses are available for guests who would be more comfortable wearing them during an IMAX 3D film. Just ask an usher when you enter the theater.

#### HOLLYWOOD FILMS IN IMAX

Some of your Hollywood favorites are coming to Phipps IMAX Theater! The Museum is adding previously released cinematic features to our IMAX lineup. Evening showings are offered on Thursdays, Fridays, and Saturdays. Find the schedule and ticket information at dmns.org/imax/showtimes.

## IMAX ORIGINAL FILM PANDAS 3D WILD AT HEART

NARRATED BY KRISTEN BELL

# NOW SHOWING

MAX ENTERTAINMENT PRESENTS IN ASSOCIATION WITH MAX DOCLIMENTARY FILMS CABITAL, JIN YI CUTURE INTESTMENT (HK) AND PANDA PRODUCTIONS "PANDAS" Mergy Withstein Bell, Patherary & David Douggias, entry Beth Spregel, Berne Gus Koven, ""By Mark Mothersbaugh Reguese Lixad Dong David Haring and Elesanaha Productions of the Patherary of the Watter and Steve Raischoff Watter Drew Fellman Wester David Douglas and Drew Fellman Device Comparison of the Patherary of the Pa

## BUY TICKETS @ DMNS.ORG/IMAX



#### BRING YOUR BRAIN OUT TO PLAY

Welcome to *Mindbender Mansion*, a quirky place full of puzzles, brainteasers, and interactive challenges that put minds of all ages to the test. This unique, high-energy experience opens for members on Thursday, July 19.

Mindbender Mansion is a series of thematic "rooms" filled with dozens of puzzle stations and challenges that get your whole body and brain—moving. The activities combine the best of childhood playfulness, mental acuity, and teamwork in a lively atmosphere.

You will be greeted in a video introduction by the slightly mysterious and distinctly wacky "Mr. E," a member of the Mindbender Society and your guide through the mansion. You will be encouraged to gather clues at puzzle stations and secret vaults in the rooms. Once you have gathered enough clues, you will earn a membership in the Mindbender Society and the opportunity to document your success with a fun photo opp.

The experience is especially enjoyed by families, groups of friends, and school and youth groups as they put their heads together to solve the challenges. Individuals also enjoy personalizing the challenges, such as trying to beat their previous time for putting a puzzle together. All participants are encouraged to think outside the box, identify patterns, use logical reasoning, and solve problems from various perspectives.

Mindbender Mansion features:

• Spelling Fever, where you tackle trivia questions by spelling out answers as you jump across the illuminated floor.

• Feeding Frenzy, where you fit food shapes into trays on a gradually accelerating conveyor belt.

• Amazing Maze, where you join with others to move a marble through a giant tilting maze.

• Dozens of puzzles where you rearrange geometric shapes, numbers, rings, and ropes into patterns.

• A wacky photo opp where you can document your puzzle mastery and enter the Mindbender Society.

• A play area with puzzles and activities for the youngest guests.

• An exhibition shop with a selection of games and puzzles to continue the fun at home.

#### **SEE IT**

Mindbender Mansion opens for members on Thursday, July 19, and will be on exhibit until Sunday, January 6. Admission is free for members. Find out more @ dmns.org/mindbender. See inside back cover for members events.

Mindbender Mansion was produced and toured by the Oregon Museum of Science and Industry, Portland, Oregon.





## DEAD SEA SCROLLS INSIDERS TIPS

The response to the *Dead Sea Scrolls* exhibition from the community has been amazing! This opportunity to see one of the greatest archaeological discoveries of the 20th century is very popular. Because of this, we have a few recommendations for your visit.

#### Timed tickets are required for all members and guests, and advance reservations are highly recommended.

The exhibition has been regularly selling out. Weekday afternoon timeslots are often more available. School groups generally visit during weekday mornings. Members receive the best price on tickets. Book your print-at-home tickets @ dmns.org/deadseascrollstickets and avoid a handling fee. Reservations are also available at 303.370.6000 (daily, 9–5). There is a \$2 fee per ticket by phone. Afternoon is the best time to call.

#### The first set of 10 scrolls will be replaced with an entirely new set of 10 scrolls in June.

Because of strict preservation requirements, the scrolls will be switched out about halfway through the run of the exhibition. The switch is currently scheduled to be completed around June 10. The new scrolls will arrive to replace the initial 10, so you can see a total of 20 scrolls while the exhibition is in Denver if you book another visit. Each batch contains a scroll displayed for the first time.

#### The scroll table is not a linear experience.

Although the table housing the scrolls is round and suggests moving in a certain direction, the scrolls and their descriptions are not placed in any particular order. As you approach the table, enter the line wherever feels comfortable to you.



#### A few other notes.

• *Dead Sea Scrolls* will be open daily through Labor Day, Monday, September 3.

• It can be challenging to park during popular times, so please factor this in when you plan your visit and entry time into the exhibition. We encourage considering other modes of transportation.

• Guests are spending an average of 90 minutes in the exhibition.

• The complimentary guest tickets you received with your membership may be upgraded for admission to *Dead Sea Scrolls*.

• Giving Club members may access their Flex Tickets for free admission to *Dead Sea Scrolls* electronically through their ecard or online Museum account, or ask to have them printed at Ticketing.



## In addition to the scrolls themselves, these are the highlights from the exhibition.

• The Dead Sea Scrolls were found in 11 caves in the desert hills near the ancient site of Qumran. They were sheltered within the caves and preserved by dry heat. Some were protected in ceramic jars. Begin your visit to the exhibition in the Desert Orientation Theater, where a live performer and immersive scenes set the stage for what you are about to experience.

• Peer into a model of a typical four-room house inhabited by ancient Israelites during the Iron Age (1150–586 BCE), filled with authentic domestic objects from the time.

• Trace your journey in history along a timeline and exhibits featuring hundreds of authentic artifacts from the Israel Antiquities Authority, including architectural pieces, a ritual bath, religious symbols, and objects from daily life.

• Encounter a replica segment of Jerusalem's Western Wall, featuring an authentic three-ton stone block from the wall itself that fell in 70 CE. As people do in Jerusalem, you may leave notes with your hopes, prayers, and dreams in cracks between stones (pictured below left).

• Learn about the mystery of the shekels, 1,200 coins unearthed at Qumran that appeared to have been hoarded for unclear reasons. See some of the silver shekels and a pottery container.

• Explore an interactive exhibit about the Ten Commandments, with an image of the Deuteronomy scroll that was created using a multispectral imaging technology. Learn distinctions between Jewish and Christian interpretations of the commandments.

• See artifacts from the desert fortress of Masada, where Jewish rebels fought against Roman forces until the fortress was breached in 73 CE. See pottery sherds, textiles, and food, all amazingly preserved by the hot, dry climate.

• Discover the techniques and tools used to preserve the fragile scrolls, including the unexpected story of how historians in the 1950s pieced them back together using cellophane tape.

• Explore how the ideas expressed in the Dead Sea Scrolls influenced three major world religions—Judaism, Christianity, and Islam—and continue to greatly impact the world today.

#### **DISCOVER MORE**

Find many resources, including an exhibition guide, descriptions of the scrolls, and more about what to expect, at dmns.org/scrolls.

#### TWENTY YEARS OF ARACHNOLOGY

BY PAULA E. CUSHING, PhD

When I was hired in 1998, the Museum had no arachnology collection. By the end of 2017, 38,000 vials of arachnids had been collected and recorded in an international database. What a difference 20 years has made!

Prior to my arrival, the last person at the Museum with any connection to arachnology was Walker Van Riper who, in 1943, was appointed the first honorary curator of insects and spiders. Van Riper was best known for pioneering high-speed nature photography; his photograph of a rattlesnake striking a balloon was iconic. He also had an interest in collecting spiders and authored a couple of scientific papers. However, his specimens were deposited at the Natural History Museum at the University of Colorado Boulder, where he was also affiliated.

Between 1960, when Van Riper died, and 1998, there was no arachnology collection or research program at our Museum. I am an evolutionary biologist focused on the evolutionary patterns, processes, and adaptations of arachnids. I have researched these animals since I was a freshman in college. When I arrived, I had the opportunity to usher in a new area of expertise for the institution.

The Museum's arachnology collection was established through the donation of the private collection of Dr. Bea Vogel, the first president of the American Arachnological Society; the transfer of arachnids from the C. P. Gillette Museum of Arthropod Diversity at Colorado State University by Dr. Boris Kondratieff; and through a new citizen science project, the Colorado Spider Survey (CSS), which Linitiated in 1999.

The CSS was modeled after the Ohio Spider Survey, established by my colleague Dr. Richard Bradley. For both projects, people interested in natural history and arachnids attend a free training workshop. In my 3 1/2 hour workshop, I cover spider biology and train participants on how to find and collect specimens and study them under a microscope to learn family-level diagnostic characteristics. More than 1,000 people have attended the CSS workshops, many of whom remain active in the project. The CSS is ongoing and continues to serve as a mechanism for growing the collection and learning more about the biodiversity of this taxonomic group in Colorado.

The arachnology collection has grown from zero vials to over 60,000 vials containing hundreds of thousands

of specimens. The data from the 38,000 vials that have been identified is available via the online Symbiota Collections of Arthropods Network (SCAN). This portal includes arthropod data from over 100 collections worldwide. Our arachnid data is also pushed out to the Global Biodiversity Information Facility network.

The collection, housed in the new Avenir Collections Center, includes not only spiders, but other orders of arachnids, including scorpions, pseudoscorpions, mites, ticks, daddy longlegs, and camel spiders (or solifuges). These specimens were collected by CSS volunteers, donated by retired arachnologists, sent by colleagues, and collected by me and my crew during my own fieldwork.

Like all the scientists working behind the scenes at the Museum, I lead an active research program and regularly publish the results in scientific journals. My fieldwork has led me, volunteers, colleagues, and my students, including Teen Science Scholars, to every desert habitat in North America. My research focus these days is on arachnids in the order Solifugae, commonly called "camel spiders" (although they are neither camels nor spiders). Despite its youth, the Museum's arachnology lab has become one of the major research hubs for arachnological studies in the United States.

My colleague, Dr. Matt Graham, of Eastern Connecticut State University, and I were recently recommended for a four-year, \$1 million grant from the National Science Foundation. This grant will allow us to increase collecting activities in the deserts of North America, carry out stateof-the-art molecular sequencing on species of camel spiders, and, most important, train the next generation of scientists, including teens, undergraduates, graduate students, and a postdoctoral scholar. The next 20 years promises to be an exciting time for the Museum's arachnology program!

#### **DISCOVER MORE**

Dr. Paula Cushing is curator of invertebrate zoology. Learn more about her research at dmns.org/science.

See specimens from the arachnology collection during the Members Open House on Wednesday, July 11. Turn to the back cover for information.



#### FUN FACTS

According to a 2017 scientific paper by Martin Nyffeler and Klaus Birkhofer, an estimated 400 to 800 million tons of insects are killed by the global spider community every year! Spiders and other arachnids are critically important insect predators in terrestrial habitats all around the globe.

Since 1998, 204 volunteers have worked more than 40,000 hours in the arachnology lab. Nearly all of them received training through the Colorado Spider Survey. A few have earned graduate degrees in arachnology after working at the Museum.

The arachnology collection includes 100 type specimens of spiders, pseudoscorpions, solifuges, and scorpions. A type specimen is used in the original scientific description of that species.

More than 30 scientific articles published by researchers since 1998 have used specimens from the Museum's arachnology collection.



Left: A vial of scorpions from Mexico. Above: Spiders and solifuges from the arachnology collection.

## THANK YOU TO OUR SPONSORS

## PRESENTED IN DENVER BY THE STURM FAMILY FOUNDATION

#### MAJOR SUPPORT FROM

Henry & Lorie

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#### THE STURM FAMILY FOUNDATION

When siblings Emily and Stephen Sturm learned last year that the Denver Museum of Nature & Science was bringing the *Dead Sea Scrolls* exhibition to our community in 2018, they were eager to get involved.

"Our family saw the *Dead Sea Scrolls* exhibit in Israel in 2016 while attending my nephew's bar mitzvah. We knew how powerful the experience of seeing the scrolls was, and we were confident in the Museum's ability to present this exhibition with excellence," said Emily, who co-manages The Sturm Family Foundation with Stephen. Within weeks of expressing interest, the Foundation became the Presenting Sponsor of *Dead Sea Scrolls* in Denver.

The Sturm Family Foundation—established in 2000 by Donald and Susan Sturm, owners of ANB Bank and Emily and Stephen's parents—supports nonprofits that provide valuable and impactful services and programs to their local communities. Although Don and Susan remain trustees, in 2015 they shifted the foundation's daily operations to Emily and Stephen. "We're proud of how our children seek to further the public good by supporting a diverse array of organizations and in ways that hold true to the family's values," said Susan.

In addition to supporting nonprofits throughout the Denver community, including Judaism Your Way, the Denver Art Museum, and the University of Denver, the Sturm family has supported the Museum since 1992. Stephen and Emily's involvement in philanthropy started early; on at least three occasions in 2001 and 2002, they charmingly donated \$6 of their allowance to the Museum! More recently, through The Sturm Family Foundation, the family has supported access to education programs for underserved schools. The recent sponsorship of *Dead Sea Scrolls* is the Foundation's most significant gift to the Museum to date.

"We're really happy with how well-received *Dead Sea Scrolls* has been here in Denver," said Stephen. "The exhibition's presentation at the Museum is beautiful. It's clear from how often it's sold out and how much time visitors spend in the gallery that it's really capturing the community's interest."

Above, from left: Susan Sturm, George Sparks, Don Sturm, Emily Sturm, and Stephen Sturm.

#### HENRY AND LORIE GORDON

As longtime Denver residents, Henry and Lorie Gordon and their children, Clay and Sawyer Gordon and Kelly and Connor Walberg, are committed to enhancing life in Colorado for its citizens. This inspired them to provide major support for the *Dead Sea Scrolls* exhibition in Denver.

The Gordons have been members at the Denver Museum of Nature & Science since 1989, and Henry has been on the Board of Trustees for seven years. In 2012, Henry and Lorie chaired the annual Museum After Dark gala, which raised \$800,000 for science education programs that impact students throughout the Rocky Mountain Region. Henry and Lorie have served on other community boards, including Alliance for Choice in Education, Colorado UpLift, and the YMCA.



From left: Henry and Lorie Gordon with George Sparks.

The Gordons were particularly interested in supporting *Dead Sea Scrolls* in Denver because of their strong faith, their trip to Israel, and the significance of the scrolls as archaeological and religious treasures. Henry recalls visiting the Dead Sea and looking up at the caves near Qumran with utter fascination.

The Gordons were so excited about the scrolls coming to Denver that they held a family reunion when the exhibition opened in March. After seeing the *Dead Sea Scrolls* exhibition, Henry said, "It is so powerful, starting with the introductory presentation, and then throughout the entire exhibition." He also mentioned that you can't take it in all at once, so he encourages seeing it more than once so you can "see the exhibition like it's the first time."

#### GHP INVESTMENT ADVISORS

GHP Investment Advisors, Inc., (GHPIA) is very proud to partner with the Denver Museum of Nature & Science to bring *Dead Sea Scrolls* to Colorado.

"Many of the ideas expressed in these ancient biblical-era documents are central to our values at GHPIA," said president Brian Friedman. "We believe understanding historical processes informs our views of the economy, financial markets, and world events."

As a locally based wealth management firm, GHPIA helps their clients fit the puzzle pieces of their financial life together, including retirement planning, education planning, risk management, income tax, estate planning, and portfolio management. The firm is a fiduciary registered investment advisor that offers unbiased advice. They do not accept commissions as compensation or sell insurance products.

GHPIA's major support for the *Dead Sea Scrolls* exhibition is emblematic of their approach to international investing. "Foreign markets are an important part of our client portfolios, and we engage with countries we believe practice superior rule of law," said Friedman. "The ancient Hebrew prophets clearly understood the connection between prosperity and justice."



GHPIA is proud to feature a subsidiary company, Israel Investment Advisors, LLC. The firm manages a fund dedicated to the Israeli stock market and is one of very few companies of its kind in the United States with direct exposure to Israeli investment opportunities.

Friedman said that GHPIA is also committed to enhancing life in the Colorado community. "We jumped at the opportunity to present one of the greatest archaeological discoveries in human history to our hometown," he said. "Having *Dead Sea Scrolls* right in our own backyard is a chance for thousands of people to see them who might not have a chance to otherwise. We are thrilled with the response the scrolls are already receiving from the community."

Brian Friedman, front row, third from right, and the GHPIA team.



### DIG INTO SCIENCE AT MAGIC MOUNTAIN

Nestled in the foothills near Golden, Magic Mountain is one of the most significant archaeological sites along Colorado's Front Range. Research to date indicates that hunter-gatherers camped in the area as long ago as 7,000 years ago. In 2017, the Museum launched an unusual way to give the site renewed scientific attention and invited the community to be a part of it. Thanks to a new grant from the History Colorado State Historical Fund, you can get involved this summer!

Historic newspapers indicate homesteaders and miners knew about the site in the 1860s, when the nearby town of Apex was established to supply local mines. In the late 1950s, Denver native Cynthia Irwin-Williams, then a PhD student at Harvard, began surveying the area and nicknamed it Magic Mountain after the defunct amusement park that later became Heritage Square. Her work determined the site could date as far as back 5000 BCE and was a settlement until as recently as 1000 CE. In the 1990s, Centennial Archaeology, Inc., resumed studying the site and started a public outreach program. The Museum houses the artifacts from this excavation, such as stone tools, bones, and grinding stones for processing food.

Last summer, under the leadership of Dr. Michele Koons, curator of archaeology, the Museum began excavation efforts at the site focused on areas of interest identified in geophysical surveys. During fieldwork, the public was invited to visit the site to see or participate in science in action. Nearly 950 people took advantage of the opportunity, and 52 volunteers from local scientific organizations dedicated 1,430 hours to the project as tour guides and excavators. In partnership with TEENS, Inc., and Boys & Girls Clubs of Metro Denver, 36 youths tried their hand at excavation, with some making authentic discoveries.

The fieldwork was focused on better understanding mobility patterns, seasonal use, and site activities during the Early Ceramic Period (200–1000 CE). The geophysical results identified many potential cultural features. Excavation based on these results unearthed five rock-filled hearths and a roasting oven possibly inside a structure, countless fragments of grinding stones, various projectile points and other stone tools, and a handful of gray cord-marked ceramic fragments. Dr. Koons and a team of interns have been cleaning, sorting, cataloging, and analyzing the collected material. Preliminary data suggest that people were primarily using local raw stone materials, which along with other ongoing analyses will ultimately contribute to the larger picture of what life was like at Magic Mountain long ago.

In 2018, the site will be open again, with increased capacity thanks to the new grant. We invite you to become directly involved in expanding our knowledge about the cultural heritage and history right in our own beloved backyard.

#### **DISCOVER MORE**

The Magic Mountain site will be open June 20–27 and July 5–13 for free tours by reservations only. Find out more about the project and how to join a tour at dmns.org/magicmountain.

An exhibit of artifacts from Magic Mountain will be displayed at the Golden History Museum when it reopens this summer after a major renovation. Find out more at goldenhistory.org.

#### MINDBENDER MANSION MEMBERS-ONLY EVENTS

Enjoy *Mindbender Mansion* during exclusive members-only events!

#### MEMBERS-ONLY PREVIEW DAY Thursday, July 19 • 9 a.m. – 5 p.m.

See it before it opens to the public! Enjoy an extra 10% off in T-Rex Cafe and Grab & Go this day only.

#### MEMBERS-ONLY EVENING Wednesday, August 1 • 6-9 p.m.

An optional prepurchased dinner is available for an additional charge: \$14 adult, junior, senior member; \$9 child.

#### MEMBERS-ONLY EVENING (21+ ONLY)

#### Tuesday, August 14 • 6-9 p.m.

\$50 member, \$60 nonmember

In addition to an adults-only evening in *Mindbender Mansion*, enjoy hors d'oeuvres and a cash bar, followed by dinner.

#### RESERVATIONS OPEN JUNE 11 AND ARE REQUIRED TO ATTEND.

Visit dmns.org/memberevents for more information.

No walk-up tickets will be available; events subject to selling out. Exhibition entry by timed ticket for members events due to gallery capacity. Only Mindbender Mansion will be open on Members Evenings; the rest of the Museum will be closed.



## MEMBERS APPRECIATION DAY

#### Sunday, August 12

Enjoy these special discounts just for you!

- 20% off on select items\* in the Museum Shop and the shops in *Mindbender Mansion* and *Dead Sea Scrolls*
- 20% off in the T-Rex Cafe and Grab & Go
- 10% off gift memberships
- 50% off IMAX and Planetarium tickets

\*Extra 10% discount does not apply to DVDs, CDs, and books. Special offers are valid in person only and must be used on August 12, 2018, and are not redeemable over the phone or online.

#### PACK YOUR MEMBERSHIP CARD

Make sure you have your membership card or ecard with you when you travel this summer. You are eligible to receive free or reduced admission to 360 science centers and museums through the ASTC Passport Program. This benefit begins outside a 90-mile radius of Denver and your residence. Find out more @ astc.org/passport

#### GET THE MOST FROM YOUR MEMBERSHIP

- Visit anytime for free 364 days a year!
- Make sure your eCard is up to date with our latest version, 3.2.2.0, or download your free eCard if you haven't yet. Please note this app is no longer available for phones using the Windows operating system. Find out more at dmns.org/ecard.
- Read the monthly eNews with members-only news, tips, and special offers. Not receiving eNews or advance notifications? Send your email address to members@ dmns.org.
- Keep your membership current with Auto-Renew. Enroll @ 303.370.6306 (daily, 9–5) and get a free gift. Your expiration date is printed on the mail label on the back of this magazine.
- Add another adult to your membership for just \$50. This is a great option for nannies and grandparents, and the add-on member enjoys many benefits! Not valid on Individual level memberships.
- Upgrade to the Family Plus level or higher and enjoy additional benefits as well as free admission at the Fort Collins Museum of Discovery.

#### WE'RE HERE FOR YOU

- 303.370.6306 (daily, 9–5)
- members@dmns.org
- www.dmns.org/members
- Members Lane at Ticketing

#### THANK YOU FOR YOUR SUPPORT!

Your membership helps us provide outstanding science education programs, exhibitions, and research.



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## **MEMBERS-ONLY OPEN HOUSE** WEDNESDAY, JULY 11 • 6-9 P.M.

## Join us for an exclusive Open House just for members during a free evening for the whole family!

- Explore your favorite exhibits throughout the Museum. The IMAX Theater and Dead Sea Scrolls will be closed this evening so you can particularly enjoy the Museum's own unique exhibitions, programs, and collections.
- Play in the Discovery Zone (especially for families with young children).
- Admire the skies through telescopes (weather permitting).
- See Museum treasures behind the scenes in the Avenir Collections Center, including some featured in Catalyst magazine.
- Learn something new from space scientists and educators.
- Enjoy the best view in Denver from the Anschutz Family Sky Terrace.
- Experience the wonders of the cosmos in Gates Planetarium.
- Meet Mr. Bones, the dinosaur puppeteer.

#### **RESERVATIONS OPEN ON JUNE 4 AND ARE REQUIRED TO ATTEND.**

• Please RSVP at 303.370.6306 (daily, 9–5) or dmns.org/memberevents. Event entry will occur every 15 minutes beginning at 6 p.m. through 7:45 p.m. The event ends at 9 p.m.

#### A prepurchased dinner is available, with reservations due by June 27.

- \$14 adult, senior, junior member; \$9 child member (ages 3-12)
- Enjoy dinner anytime between 6 and 8 p.m. Menu at dmns.org/memberevents.

# ADULTS I CHILDREN I FAMILIES I TEENS SUMMER 2018



## JUNE 21: UNDER THE SEA

Sex-changing fish?! Sea slugs that are both male and female?! Dive under the sea to explore fabulously fantastic marine life. Whet your curiosity by investigating coral and seashells from the Museum's collections, and learn more about preserving the kaleidoscope of ocean biodiversity. Presented in partnership with the GLBT Community Center of Colorado as part of Denver PrideFest Week.

## JULY 19: SELECT YOUR SCIENCE LOUNGE

You sent us the Science Lounge topics of your dreams, and one became reality for the crowdsourced Science Lounge! The winning idea will be announced at Science Lounge on June 21.

## AUGUST 16: MINDBENDER MANSION

It's a night of mystery! Explore the temporary exhibition *Mindbender Mansion*, a quirky place full of puzzles, brainteasers, and interactive challenges. Put your "deduces up" with a live action whodunit just waiting to be solved.

BUY TICKETS AT DMNS.ORG/SCIENCELOUNGE \$13 MUSEUM MEMBER, \$15 NONMEMBER MEDIA SPONSORS



## SUMMER 2018

#### **EXHIBITIONS**

#### **Creatures of Light**

Now through June 10 • Phipps Gallery • Free for members Delve into the world of living things that blink, glow, flash, and flicker, from tiny fireflies in the backyard to strange creatures in the ocean's depths.

#### **Dead Sea Scrolls**

Now through September 3 • Anschutz Gallery • Special timed ticket required See authentic Dead Sea Scrolls along with hundreds of historical artifacts that explore the origin of the modern world. Tickets often sell out; advance reservations strongly encouraged.

#### **Mindbender Mansion**

Opens July 20 • Phipps Gallery • Free for members Enter *Mindbender Mansion*, a quirky place full of puzzles, brainteasers, and interactive challenges that put minds of all ages to the test.

#### ¡Cuba!

Opens October 26 • Anschutz Gallery • Free for members In this lively exhibition, discover the dynamic culture, abundant biodiversity, and unexpected contrasts of the Caribbean's largest island nation.

#### PHIPPS IMAX 3D THEATER • Now showing

America's Musical Journey 3D Conquest of the Skies 3D • Closes June 14 Jerusalem 3D Pandas 3D Hollywood Favorites • check dmns.org/imax

#### **GATES PLANETARIUM** • Now showing

Black Holes: The Other Side of Infinity Cosmic Journey Destination Solar System One World, One Sky: Big Bird's Adventure Space Tours Live

#### **ADMISSION** Special timed ticket required for *Dead Sea Scrolls*.

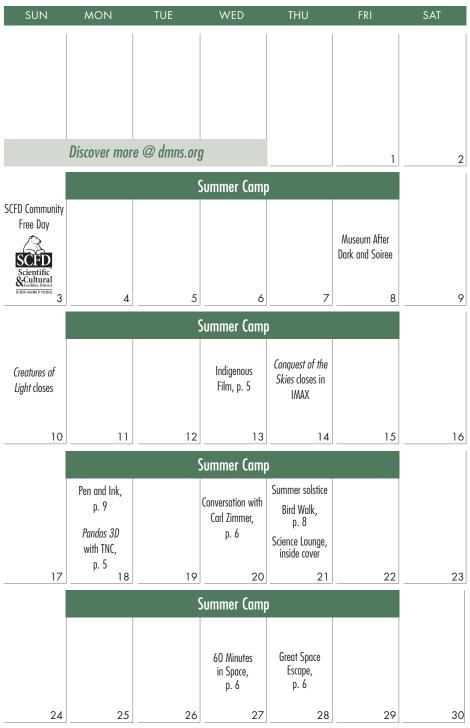
	MUSEUM	IMAX	PLANETARIUM
Adult member	FREE	\$7	\$5
Senior member (65+)	FREE	\$6	\$4
Child/Junior member (3–18)	FREE	\$6	\$4

The Museum is open daily 9 a.m.–5 p.m., with extended hours at various times. Dates, times, prices, and schedules subject to change. Find more ways to discover @ dmns.org.

On the cover: Orange oakleaf (Kallima inachus), ZE.2971

#### SUMMER 2018 | RESERVATIONS 303.370.6000 OR WWW.DMNS.ORG

#### JUNE



#### JULY

SUN	MON	TUE	WED	THU	FRI	SAT
				SCFD Community Free Night 4–10 p.m. only		
1	2	3	4	5	6	7
			Summer Camp Members Only Open House Indigenous Film, p. 5 Sci-Fi Film, p. 6	Bird Walk, p. 8 Insect Collecting, p. 9	Teen Lounge, p. 11	
	9	10		12	13	14
15	16	17	Summer Camp Sci-Fi Film, p. 6 18	Mindbender Mansion Members Preview Science Lounge, inside cover 19	Mindbender Mansion opens Canoe Trip, p. 10 20	21
			Summer Cam	J J		
22	23	24	60 Minutes in Space, p. 6 Sci-Fi Film, p. 6 25	26	27	28
Summer Camp						
Canoe Trip, p. 10 29	30	Dead Sea Scrolls lecture, p. 7 3 1				
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SUMMER 2018 | RESERVATIONS 303.370.6000 OR WWW.DMNS.ORG

## AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT		
	Summer Camp							
			Sci-Fi Film, p. 6					
			<i>Mindbender Mansion</i> Members Evening 1	2	3	4		
	Summer Camp							
			Canoe Trip, p. 10					
			Indigenous Film, p. 5	Digital Earth, p. 7				
5	6	7	Sci-Fi Film, p. 6 8	9	10	11		
	SCFD Community Free Day			Bird Walk, p. 8				
Members Appreciation Day	Scientific Scientific Kestilise Diarise ditions and a Product	Mindbender Mansion Members	Sci-Fi Film, p. 6	K-P Boundary, p. 9				
10	History of Dogs, p. 9	Evening (21+)	15	Science Lounge, inside cover	17	10		
12	13	14	15	16	17	18		
				Peer Revue, p. 7		Dead Sea Scrolls for Families, p. 11		
19	20	21	22	23	24	25		
		New Horizons, p. 7	60 Minutes in Space, p. 6	Last Question, p. 8				
26	27	28	29	30	31			



#### **Indigenous Film Series**

The Denver Museum of Nature & Science is pleased to partner with the International Institute for Indigenous Resource Management and the Denver American Indian Commission to present Indigenous Film, a monthly series. Join us for a wide variety of films, from documentaries to feature films and youth film showcases. Following the film, participate in a discussion with the commissioners of the Denver American Indian Commission and other special guests. Concessions available for purchase. Check dmns.org for film titles.

Wednesdays, June 13, July 11, and August 8 (in Ricketson) • 6:30 p.m. • Phipps Theater • free

#### Pandas

This special screening of the IMAX film *Pandas 3D* follows a curious panda cub named Qian Qian, born at Chengdu Panda Base in China, as she prepares for life on her own. Her journey is steered by a team of international scientists whose work is inspired by a rehabilitation program for black bear cubs in rural New Hampshire. The cross-cultural collaboration becomes a life-changing experience as together they guide Qian Qian to take her first steps outside her protected habitat and discover her true animal nature. After the film, Charles Bedford, Asia-Pacific region managing director for The Nature Conservancy, will discuss the organization's efforts to build relationships with regional leaders to develop next-generation conservation solutions that benefit nature and people. Enjoy coffee and dessert following the presentation. Presented in partnership with The Nature Conservancy Colorado.

Monday, June 18 • 7 p.m. • Phipps IMAX Theater • \$12 Museum or TNC member, \$15 nonmember



#### The Powers, Perversions, and Potential of Heredity: A Conversation with Carl Zimmer

Join award-winning *New York Times* columnist and popular science author Carl Zimmer and Dr. Chip Colwell, senior curator of anthropology and editor-in-chief of the digital magazine *Sapiens*, for a conversation about the force that has shaped human society and is about to shape our future even more radically: heredity. In his new book *She Has Her Mother's Laugh: The Powers, Perversions, and Potential of Heredity,* Zimmer presents a history of heredity. Weaving historical and current scientific research and his own experience with his two daughters, Zimmer ultimately unpacks urgent bioethical quandaries arising from new biomedical technologies, as well as long-standing presumptions about who we really are and what we can pass on to future generations. Cosponsored with *Sapiens*, sapiens.org.

Wednesday, June 20 • 7 p.m. • Phipps Theater • \$12 member, \$15 nonmember • Book sale & signing

#### **60 Minutes in Space**

Go "behind the stories" in space science with space scientists Steve Lee and Ka Chun Yu using the best images and animation available to help understand new developments. No reservations required. Seating is limited to first-come, first-served.

Wednesdays, June 27, July 25, August 29 • 7 p.m. • Ricketson Auditorium • free

#### The Great Space Escape for Adults Only

Strap on your space boots for a crash course in constellations and galactic hijinks with a pair of cosmically comical astronomers. It's part stand-up, part science, part history, and all parts fun. Cash bar opens 30 minutes before showtime, so come early and grab a drink.

Thursday, June 28 • 6 or 8 p.m. • Gates Planetarium • \$15 member, \$18 nonmember • Ages 21+



#### **Sci-Fi Film Series**

A summertime favorite is back! Various Museum scientists and Vincent Piturro, associate professor of film and media studies at Metropolitan State University of Denver, join together to host screenings of famous sci-fi films and lead discussions to break down the science behind these alternative possibilities. Tickets at dmns.org/scififilmseries.

Wednesdays, July 11-August 15 • 7 p.m. • \$12 Museum or DFS member, \$15 nonmember, \$8 student (per film) July 11 • *ExMachina* • Sie Film Center

- July 18 2010 with space scientist Steve Lee Phipps Theater
- July 25 Dark City with space educator Naomi Pequette Sie Film Center
- August 1 Annihilation with health scientist Nicole Garneau Phipps Theater
- August 8 The Shape of Water with zoologist Jeff Stephenson Phipps Theater
- August 15 BladeRunner 2049 with space scientist Ka Chun Yu Sie Film Center

#### The Dead Sea Scrolls

Denver is fortunate to have a renowned local Dead Sea Scrolls scholar, Dr. Alison Schofield, associate professor of Hebrew Bible and Judaic studies at the University of Denver. She is recognized internationally for her scholarship of the scrolls and was recently entrusted with leading an extensive multiyear project to create a new translation, edition, and commentary on the charter text of the Dead Sea Scrolls, entitled "The Community Rule." She has published extensively and participated with other preeminent scholars around the world

to address many of the central questions related to the scrolls and some of the mysteries that still surround them. Join Schofield for an engaging evening as she shares stories from her research and fieldwork in Qumran.

Wednesday, July 31 • 7 p.m. • Phipps Theater • \$12 member, \$15 nonmember

#### **Digital Earth: Wine**

Join us to hoist a glass of fine Shiraz at our first Digital Earth adventure devoted to wine. Your hosts Bob Raynolds and Ka Chun Yu will use the Gates Planetarium dome to transport you to the ancient city of Shiraz to explore the development of vineyards in Iran and the Middle East, then travel on to consider some of the varieties known as Shiraz grown in France and Australia. The evening will feature tours of vineyards and discussions of terroir, crowned by a wine tasting.

Thursday, August 9 • 7 p.m. • Gates Planetarium • \$20 member, \$25 nonmember

#### Peer Revue: Standup Comedy for Science

Cheer on local scientists turned comedians as they attempt stand-up for the first time and wax hilarious about the unique nuances of their work. This one-of-a-kind comedy night for science fans will get you laughing with (and at!) some of the biggest brains in town. Learn more at peer-revue.com. Ages 18+. Cash bar.

Thursday, August 23 • 7:30 p.m. • Science Atrium • \$12 member, \$15 nonmember

#### **Chasing New Horizons**

On July 14, 2015, a tiny human-made speck of metal loaded with humankind's best technologies and curiosity shot past the mysterious ice-worlds of the Pluto system, giving humanity an incredible new wealth of information about the fringe of our solar system. Coauthors of Chasing New Horizons: Inside the First Mission to Pluto, Dr. Alan Stern (lead on the mission) and Dr. David Grinspoon (noted astrobiologist), take us behind the scenes of this historic mission to tell the story of focused hard work, political struggles both within and outside of NASA, and a decadeslong commitment to discovery. Hear the tenacious tale of a group of people working toward an incredible goal, and ask your questions about the history that is still being written in the stars.



Tuesday, August 28 • 7 p.m. • \$12 member, \$15 nonmember • Phipps Theater • Book sale & signing



#### Isaac Asimov's The Last Question

In 1979, the Museum produced *The Last Question*, a planetarium show based on a short story by acclaimed science fiction writer Isaac Asimov and narrated by the legendary Leonard Nimoy. The story takes place in 2061 and begins with a simple question posed to a computer. Now you can experience the cerebral tale as never before during this totally-out-there event combining visual elements digitized from the original glass slides, Nimoy's voiceover, and today's advanced planetarium technology. Swing by the cash bar before the show and see items from the Museum archives, including objects related to Asimov and Nimoy. Dr. Ka Chun Yu, curator of space science, will lead a Q&A after the program.

Thursday, August 30 • 6 or 8 p.m. • Gates Planetarium • \$12 member, \$15 nonmember

#### BIRD WALKS

Explore with expert bird guide Norm Lewis, Zoology Department associate. Please check your reminder email for meeting locations for each bird walk.



#### White Ranch Park and Genesee Mountain Park

At Lower White Ranch Park, follow a creek as it winds through brushy riparian woodland, in a habitat for gray catbird, yellow-breasted chat, yellow warbler, Cordilleran flycatcher, and more. After lunch, venture higher into the foothills to Genesee Mountain Park. Here in the ponderosa forest, search for Williamson's sapsucker, plumbeous and warbling vireos, all three nuthatches, broad-tailed hummingbird, and more.

Thursday, June 21 • 6 a.m. - 5 p.m. • \$27 member, \$35 nonmember

#### Red Rocks Park, Lair o' the Bear Park

At Red Rocks Park, the towering red rock cliffs host nesting peregrine and prairie falcons, as well as common ravens and canyon wrens; brushy areas have black-headed grosbeak, spotted towhee, lazuli bunting, and black-capped chickadee. In Lair o' the Bear Park in Bear Creek Canyon, look for American dipper, western wood-pewees, and belted kingfisher. In moist thickets, MacGillivray's warblers and warbling vireos nest. Arid slopes may have Virginia's warbler, green-tailed towhee, and blue-gray gnatcatcher, while in the woods plumbeous vireo, pygmy nuthatches, and brown creepers are usually present.

Thursday, July 12 • 6:30 a.m.-5 p.m. • \$27 member, \$35 nonmember

#### Morgan County Playas and Jackson Lake State Park

As we enter late summer, fall migration is underway. Thousands of shorebirds pass through Colorado and congregate around mudflats and shorelines where they can feed and rest. Areas of Morgan County are magnets for many species of shorebirds, including American avocet, black-necked stilt, long-billed dowitcher, "peep" sandpipers, and more. Then travel to Jackson Lake State Park in search of summer resident and migrating songbirds in the woodlands, and migrating waterfowl. Large flocks of American white pelicans should be present, and sandhill cranes pass overhead, making their prehistoric calls.

Thursday, August 16 • 6:30 a.m.–5 p.m. • \$27 member, \$35 nonmember

#### COURSES

#### Pen and Ink Illustration

Join Marjorie Leggitt, award-winning illustrator, whose work you enjoy when you visit *Prehistoric Journey* and many other Museum halls, for an all-levels introduction to pen and ink drawing. This technique remains a solid art form in both the fine-art world and on the pages of scientific texts and journals. Discover the various marks used to produce beautiful black-and-white renderings. Working with Museum specimens, learn how to create lines and stipples that suggest shape, form, and texture. Building a solid "toolbox" of skills, students will produce a final pen-and-ink plate of a specimen of their choice. All drawing materials included.

Mondays & Wednesdays, June 18-27 • 6-9 p.m. • \$225 member, \$255 nonmember

#### Insect Collecting

Bugged by how little time you spend outside inspecting insects? Dig deep into the wild world of Colorado insects with Dr. Frank Krell, curator of entomology, and Jeff Stephenson, zoology collections manager, as your seasoned guides. You'll uncover what to look for, how to collect it, and the art of mounting specimens during two class sessions, then venture into the field to practice your newfound skills.

Thursday & Tuesday, July 12 & 17 • 6:30–8:30 p.m. • Field trip: Saturday, July 14 • \$75 member, \$100 nonmember

#### From Your Campfire to Your Bed: The History of Our Dogs and Us

The natural history of dogs is of course tightly woven with our own, and we would be lost without them. Instructor Sue Ware will introduce you to some of the most famous dogs in history, and scary, awesome dogs of legend, as we explore how dogs have helped shaped what it means to be human and why "man's best friend" is more than just a nickname.

Mondays & Wednesdays, August 13-22 • 6:30-9:30 p.m. • \$110 member, \$140 nonmember

#### The Cretaceous-Paleogene Boundary

The extraterrestrial event that caused the mass extinction of the dinosaurs now defines the Cretaceous-Paleogene (K-P) boundary. Paleontologist and research associate Lou Taylor leads you through a study of this catastrophic event and how it impacted the organisms living on land and in the seas. Includes a one-day field trip to a locale in southern Colorado near Trinidad, considered one of the best-known K-P sites.

Thursday & Friday, August 16 & 17 • 6:30–8:30 p.m. • Field trip • Saturday, August 19 • \$110 member, \$140 nonmember

#### **Osteology 101: The Bare Bones of Mammals**

We've got a bone to pick with you! Instructor Sue Ware leads you through the skeletal anatomy (osteology) of mammals. This class for beginners explores the basics of mammalian bone organization, development, composition, and adaptation. Learn how the skeletons of vertebrates allow them to leap, climb, and bounce their way through their busy lives. In addition to lectures, this class is taught through hands-on experiences using Museum specimens and our virtual lab.

Thursdays, September 6-27 • 6:30-9:30 p.m. • \$110 member, \$140 nonmember

#### CANOE TRIPS

Paddle along scenic rivers while soaking in the sun and gaining new knowledge about geology, wildlife, astronomy, and dinosaurs. Reservations and information: 720.283.0553, www.CentennialCanoe.com

#### Geology and Archaeology by Canoe on the Upper Gunnison

With geologist Bob Raynolds as your guide, marvel at colorful sandstone walls hundreds of feet high and explore canyons and ancient rock art. Canoe down this epic stretch of river, hike and explore the Dominguez Canyon Wilderness Area with waterfalls and petroglyphs, and camp along the river's edge.

July 20-22 • \$436 adult, \$406 child (6-12 years)

#### Dinosaurs by Canoe on the Gunnison

Experience fascinating rock formations from the age of the dinosaurs, and paddle your way along the Gunnison River with educator Samantha Sands as your time-travel guide. Camping along the river's banks and exploring Dominquez Canyon will leave you awed by the immensity of geologic time.

July 29-31 • \$436 adult, \$406 child (6-12 years)

#### Archaeology and Western History on the Green River

Museum educator Jennifer Moss Logan shares stories of those who left their mark on the local landscape, from ancient native peoples to the colorful characters whose adventures brought them westward. For both the adventurer and historian at heart.

August 8-12 • \$691 adult, \$661 child (6-12 years)



## FAMILIES, TEENS, AND CHILDREN

#### Teen Lounge • Ages 13-18

Teens take over the Museum at this totally free, uniquely teen night. Venture through Museum exhibits, get hands-on with entertaining activities, jam to live music, and win awesome giveaways. Chill with friends and eat free snacks after hours! Check out dmns.org for details. Sponsored by Lincoln Hills Cares.

Friday, July 13 • 7-10 p.m. • free



#### Dead Sea Scrolls for Families • Grades 3 and up

The Dead Sea Scrolls come alive in this interactive and fun program! This is a chance for the whole family to see the exhibition together and learn more about daily life in the ancient Middle East.

Saturday, August 25 • 9-11 a.m. • member: \$12 adult, \$8 child/junior; nonmember: \$15 adult, \$10 child/junior



#### Stay up with the Stars • Families with children

Stay up late with us as Museum educators and an astrophysicist or two walk us through the incredible Colorado night sky. After a dinner at the Museum, watch planetarium shows, see your favorite fall constellations through highpower telescopes (weather permitting), and make your own star-studded crafts.

Thursday, September 6 • 6–9 p.m. • member: \$20 adult, \$15 child/junior • nonmember: \$25 adult, \$20 child/junior

#### **RESERVATIONS AND GENERAL INFORMATION**

303.370.6000, daily, 9 a.m.-5 p.m., or dmns.org

#### **MEMBERSHIP OFFICE**

303.370.6306 or members@dmns.org

#### **RENEW YOUR MEMBERSHIP ONLINE**

dmns.org/members

#### **PRINT-AT-HOME TICKETS**

Print-at-home tickets are available for exhibitions, IMAX and Planetarium shows, and lectures and programs, and there's no handling fee! When you arrive at the Museum, proceed directly to the ticket takers or to your program. Please always bring your membership card and photo ID when you visit the Museum. There is a \$2 handling fee per ticket for surcharged exhibitions reserved by phone.

#### **E-CARD: BENEFITS AT YOUR FINGERTIPS**

The free eCard app is so much more than just a convenient way to store your member number! You'll receive instant access to your members perks and benefits. Find out more @ dmns.org/ecard.

#### **E-COMMUNICATIONS**

Receive a monthly newsletter with updates and special offers as well as advance notices and other insider information when you share your e-mail address with us at members@dmns.org.

#### CONFIRMATION

For After Hours programs, classes, field trips, and programs for families and teens, you will receive a reminder e-mail with directions for entering the Museum.

#### **REFUND POLICY**

Sales are final on all tickets unless the Museum cancels the event.

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## USE YOUR MEMBERSHIP OFTEN! WE'RE OPEN 364 DAYS A YEAR!

## THREE WAYS TO SHOP AND SAVE THIS SUMMER

THE MUSEUM SHOP LEVEL 1

THE DEAD SEA SCROLLS SHOP LEVEL 3

#### MINDBENDER MANSION SHOP LEVEL 3 (OPENS JULY 20)

#### MEMBERS SAVE 10% EVERY DAY!





SALAD BAR, GRILL, KIDS MEALS — LEVEL 1 11 a.m.—2 p.m.

GRAB & GO SANDWICHES, SNACKS — LEVEL 1 COFFEE LAB — LEVEL 2 9 a.m.—5 p.m. Proudly serving locally sourced Colorado products.

