Herrett Center for Arts & Science

EDUCATORS' GUIDE

2021-2022

herrett.csi.edu

WHAT'S NEW?

LOOK INSIDE FOR:

Museum & Observatory Programs

Planetarium Shows

CSI COLLEGE OF SOUTHERN IDAHO

Dear Educators,

The 2021-2022 Educators' Guide is packed full of exciting opportunities for you and your students. Come to the Herrett Center to learn and engage with our museum galleries, Faulkner Planetarium, and Centennial Observatory.

Inside, you'll find listings of the many programs the Herrett Center has to offer schools, information on how to schedule class visits, and tips for how to get the most out of your trip to the Herrett Center.

The Education team at the Herrett Center is always willing to work with you to find the program that best fits your students and curriculum. Our mission is to create meaningful, engaging experiences, and we can't wait to see you and your class at the museum!

All the best,
Kindy Combe,
Education Coordinator

Covid-19 and Field Trips

The Herrett Center staff is committed to continuing to provide fun, educational experiences for visiting students, while also providing a safe, clean environment during this pandemic. Changes have been made to how we book multiple groups, museum exhibits, procedures for groups in the museum, and more. Please note these changes to keep in mind when booking a field trip to the Herrett Center for Arts and Science:

Personal Protection

- Masks or face shields are highly recommended but not required for school group participants, students or adults. However, the College of Southern Idaho and the Herrett Center reserve the right to require masks as we deem necessary.
- Dedicated entrances and exits have been clearly marked.
- Hand-sanitizing stations are located throughout the museum.
- A Plexiglas screen has been installed at the front desk. We ask school group participants to stand in front of the screen, rather than to the side, when interacting with front desk staff.
- Signage throughout the Herrett Center reminds all patrons to continue to social distance and practice safe hygiene. We ask school groups to pay close attention to signage while on the premises.

Crowd Limitations and Social Distancing

- The Herrett Center makes every effort to limit overlap and interaction between separate field trip groups while visiting. However, there may be times that groups from different schools overlap for short periods of time due to scheduling. At those times, we will encourage and/or facilitate social distancing between groups while inside the center.
- We ask that no more than 10 students shop in the Herrett Center gift shop at a time to allow for social distancing.
- Currently, the Herrett Center is not limiting attendance into the building, although we reserve the right to limit the number of patrons as we deem necessary.

Exhibit and Program Modifications

- Hands-on exhibit components, interactive touch screens, and other “high touch” experiences may be removed, turned off, or made inaccessible. For students to have a quality experience in the galleries, we highly recommend looking into our Scavenger Hunts.
- The Centennial Observatory will be open for programs, however, groups rotating through may need to be smaller to be able to properly social distance from our staff. This may extend rotation time for larger school groups.
- Adjustments have been made to educational programs for them to be "no touch" programs.

Cleaning Procedures

- The Herrett Center has instituted enhanced cleaning procedures in all spaces, including frequent cleaning and disinfection of “high-touch” areas.
- Planetarium seats are disinfected between school groups.

Scheduling Your Visit:

All group visits must be scheduled in advance, including self-guided visits to the galleries. At the time you schedule your visit, please notify us of any special needs within your group so we can best accommodate you.

To schedule your visit, please contact Shelby Hamblen, the Events & Academic Coordinator:

(208) 732-6657 or

sphamblen@csi.edu

We will work as best we can to schedule your desired program time. It is recommended to schedule your visit at least one month in advance so that we can best fit you in around other school groups, public events, and private meetings.

Be sure to mention any time restrictions you might have (i.e. bus schedule issues, need to cut programs short, etc.) at the time your visit is booked.

Program Fees:

	Price per person*	Minimum charge†
Planetarium Show	$3.00	$75.00
Planetarium Double Feature (two shows)	$5.00	$125.00
Education or Observatory Program	$2.00	$20.00
Nighttime Observatory Program (after regular museum hours)	$3.00	$75.00
Explore Herrett Package (Must meet 25 person minimum to receive discount; Three programs of your choice, one planetarium show max; Excludes after-hours observatory programs, scavenger hunts, and story time)	$6.00	$150.00
Scavenger Hunt	$1.00	N/A
Story Time	N/A	$15
Virtual Field Trip	N/A	$25/ Half hour

*Please be aware that all chaperones and teachers are charged for programs.

†Minimum charge for the planetarium is based on 25 attendees; for the museum, reptiles, and observatory programs, 10 attendees. After-hours observatory program minimum is 25 attendees.

The Herrett Center welcomes students with different backgrounds and abilities! Special education teachers- please contact our Events & Academic Coordinator about adjusted group sizes and how we can best accommodate your students for a field trip experience at the Herrett Center.

Museum Education Programs:

All museum education programs are an hour long. See below for all the options for Educator-led programs at the Herrett Center.

Reptile Programs:

Recommended for grades Pre-K and up

Come experience the Herrett Center's most popular education program! Students will learn about the characteristics of reptiles and have the opportunity to meet some of the Herrett Center's snakes and lizards in person! Reptile programs are a great addition to your biology or life science curriculum.

Pre-K and Kindergarten Reptile Programs:

If you are looking for a fun, educational trip for your early childhood classroom, give the Herrett Center a try. The education team has developed an interactive, sensory, and movement-based program for students in preschool, pre-K and kindergarten. Children will discuss colors and patterns while looking at live snakes and lizards.

*Because of class size, time restrictions, and Covid-19, students may not have the opportunity to touch or handle reptiles.

Hunting and Gathering in Idaho

Recommended for grades 3 and up

What did pre-historic and historic Idahoans eat, and how did they obtain their food? Explore the cultures of Idaho's native peoples by discovering what they ate! Examine preserved food items and tools used in hunting and gathering foodstuffs. This program is a fantastic supplement for students learning about Idaho history in their classrooms.

Virtual Education Programs:

For those unable to travel for field trips this school year, the Herrett Center now offers Virtual Education Programs! These virtual programs, presented through Zoom, are for classes with approximately 15-30 students and are offered in either half hour or full hour sessions. Additional charges apply to larger groups.

Reptile Program

Recommended for grades Pre-K and up

Available as a half hour or full hour program

Experience the Herrett Center's most popular education program, virtually! Students will learn about the characteristics of reptiles and have the opportunity to meet some of the Herrett Center's snakes and lizards! Reptile programs are a great addition to your biology or life science curriculum.

Hunting and Gathering in Idaho

Recommended for grades 3 and up

Available as a half hour program only

What did pre-historic and historic Idahoans eat, and how did they obtain their food? Explore the cultures of Idaho's native peoples by discovering what they ate! Virtually examine preserved food items and tools used in hunting and gathering foodstuffs. This program is a fantastic supplement for students learning about Idaho history in their classrooms.

Telescopes!

Recommended for grades 3 and up

Available as a half hour program only

Can't come to the Herrett Center? Schedule a virtual observatory field trip via Zoom. Observatory Coordinator Chris Anderson will give a PowerPoint presentation about the types of telescopes, how they work, and what they can show us, then share live video from the observatory's 24" Norman Herrett telescope, which can image bright stars and planets even in the daytime (weather permitting).

Scavenger Hunts*:

At the Herrett Center for Arts & Science, students can find a host of items in the galleries to capture their attention and imagination. Age-appropriate scavenger hunts will help students explore the museum and find out more about items in our exhibits. Schools are welcome to add a scavenger hunt to their scheduled gallery time.

Groups requesting a scavenger hunt will be provided with the following for each person: a clipboard (to be turned into the Educator upon completion), a black and white copy of the chosen scavenger hunt, and a Herrett Center pencil to take home. Scavenger hunts are designed to take up to 30 minutes to complete. The Herrett Center can accommodate up to 80 people participating in a scavenger at a time. Groups of more than 80 people can be accommodated with additional planning with our Events & Academic Coordinator.

Museum Madness

Recommended for grades Pre-K and up

Take the opportunity to get to know the different museum galleries better! This scavenger hunt allows participants to have fun exploring all of the museum's permanent galleries. Educators can pick the *Museum Madness* scavenger hunt that best fits their students' grade level:

- Pre-K – 2nd
- 3rd and up

Creeping for Critters

Recommended for grades Pre-K and up

Creep through the museum and search for critters big and small! Participants will be able to search through the museum's permanent galleries for creatures on display. Educators can choose the *Creeping for Critters* scavenger hunt that best fits their students' grade level:

- Pre-K – 2nd
- 3rd and up

No Tooling Around

Recommended for grades Pre-K and up

Search through the museum and find tools of all kinds! Participants will be able to search through the museum's permanent galleries for tools on display. Educators can choose the *No Tooling Around* scavenger hunt that best fits their students' grade level:

- Pre-K – 2nd
- 3rd and up

North American Natives

Recommended for grades 3 and up

Take a fun, more in-depth look at the Native Americans living in the Great Plains and Great Basin areas with this scavenger hunt for our *Native American Fishing* and *Tatanka Maka* exhibits. *We recommend no more than 30 students participating in this scavenger hunt at one time.*

**Short on funds for your field trip? Talk to our Events & Academic Coordinator about how your students can do one of our scavenger hunts at no charge.*

Story Time:

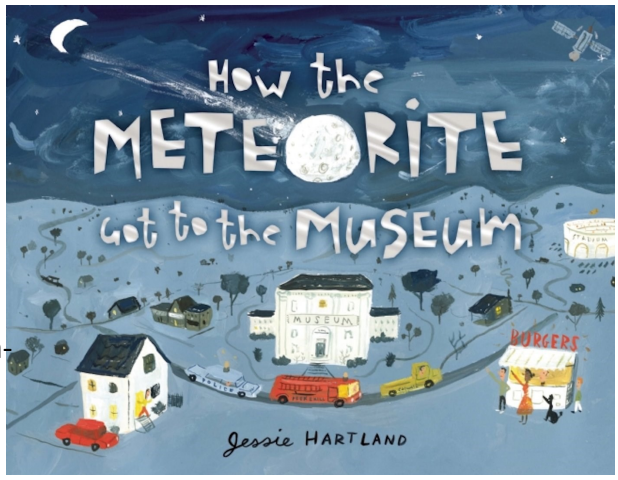
Recommended Grades: Preschool and Kindergarten

Enjoy a story read by our educator, along with a short activity! This program is designed to be 30-45 minutes and is for groups of no more than 30 students. It is recommended to have one adult for every 10 students to assist with the short activity.

This program has a flat rate of $15.

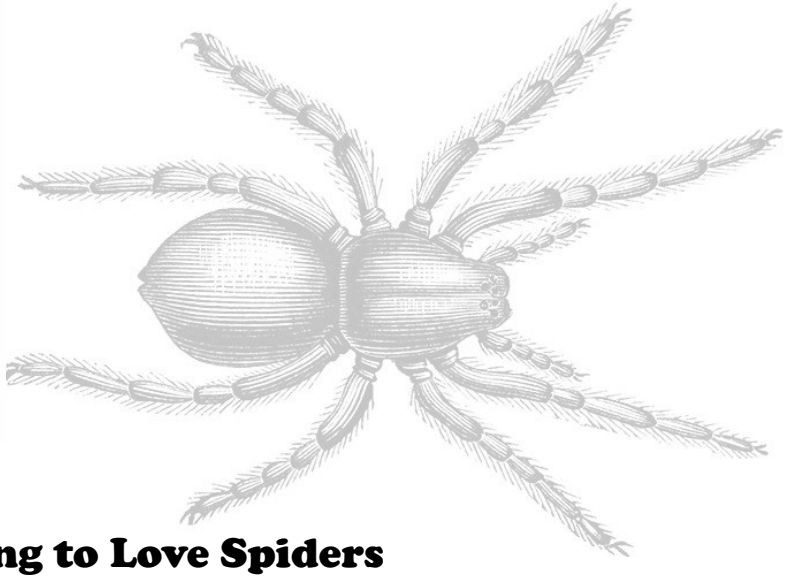
How the Meteorite Got to the Museum

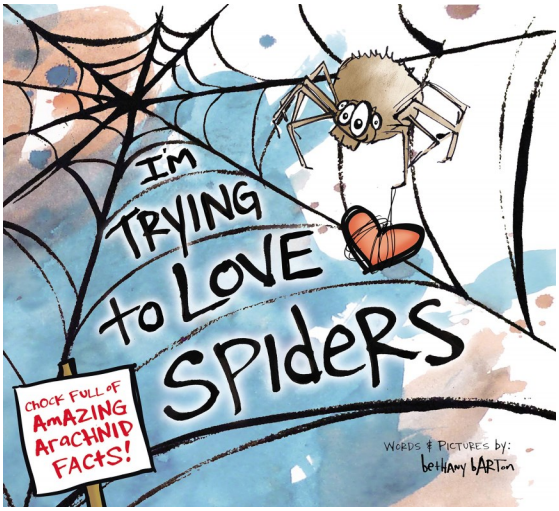
Written & Illustrated by Jessie Hartland



Employing the cumulative narrative style, Hartland explains how the Peekskill Meteorite traveled from space to Earth, eventually finding a permanent place in the American Museum of Natural History in New York City.

After the story, students will get a chance to make their own cocoa craters.





I'm Trying to Love Spiders

Written & Illustrated by Bethany Barton

So many people are terrified of spiders, but in this fun, interactive book readers will learn interesting facts about spiders as they work to overcome their fear along with the narrator.

After the story, students will get a chance to observe a spider in its habitat and participate in a web lacing activity.

**Teachers, please choose "Uppercase/Lowercase ABC's Matching" activity or "Rhyming Words Matching" activity when booking this story.*

Planetarium shows:

New!

This school year, the Faulkner Planetarium, with Digistar 7 Technology, is happy to announce six new shows available for visiting school groups. Read more about them below!

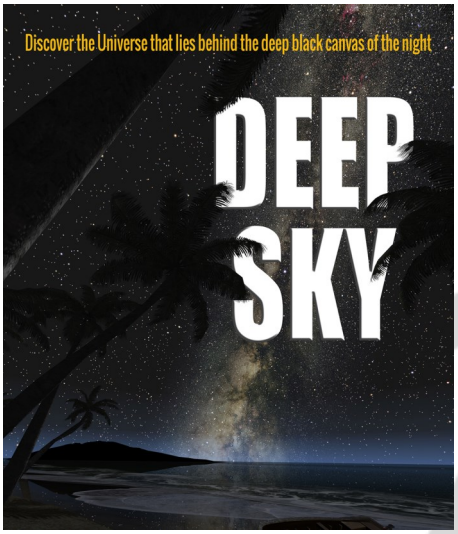
Arora/Live Sky Tour

Available after December 1, 2021

Recommended Grades 3 – 12+

The Northern and Southern Lights, better known as the aurora borealis and aurora australis, are one of Earth's most fascinating natural phenomena. Steeped in many mythologies, these ethereal lights dance across polar skies in ghostly fashion. Discover what generates the aurora here on Earth and on other planets and moons. Come, be captivated by Arora, the Icelandic goddess of the dawn and the aurora, and her tales of herself and her sisters. Behold the wonder and beauty of the aurora as seen from Iceland!

Concepts: Solar flares and coronal mass ejections, solar wind, Earth's magnetic field, types of aurorae (rays, arcs, bands), cultural mythologies surrounding aurorae.



Deep Sky/Live Sky Tour

Recommended Grades 5 – 12+

For all its splendor, a starry sky is but a sliver of the universe, most of which is too distant and dim for the human eye to see. Telescopes and sensitive digital detectors reveal a "deep sky" of stellar birth and death, star clusters, distant galaxies, galactic collisions, the large-scale structure of the universe, and a background of cosmic radiation echoing across time.

Concepts: The human visual system, Messier catalog, distances in space, visualization of the positions of deep sky objects, Milky Way galaxy, local group of galaxies, sponge structure of the universe, Laniakea supercluster of galaxies, nature of various deep sky objects, Hubble deep field and ultra-deep field images.

GranPa and Zoe Mission: Light/Live Sky Tour

Recommended Grades 3 – 5

A typical day for GranPa and Zoe in the Australian outback is interrupted when GranPa's old nemesis, Bogbog, attempts to block sunlight from reaching the Earth. Exploring and utilizing different wavelengths of the electromagnetic spectrum, can GranPa and Zoe foil Bogbog's diabolical plan, reveal the nature of color and light, and save the day?

Concepts: Electromagnetic spectrum, color, light waves, energy.

New!

Life's Question/Live Sky Tour

Recommended Grades 4 – 12+

Life flourishes on Earth, but can it exist elsewhere? What are the essential elements of life, as we know it? How did these elements come into being? What conditions are favorable to life? *Life's Question* delves into these questions and others to explore not only the origins of life on Earth, but also the possibilities for finding life beyond our shores. Discover the six crucial CHNOPS elements that comprise and drive terrestrial life.

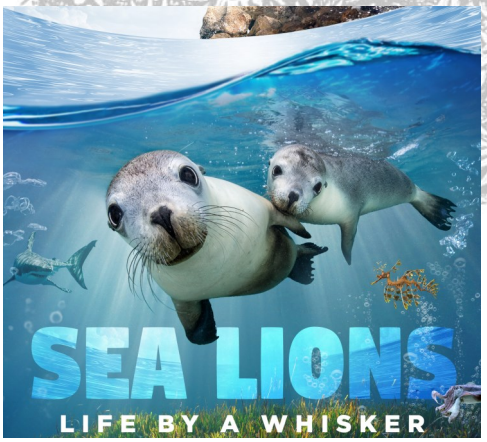
Concepts: CHNOPS elements (carbon, hydrogen, nitrogen, oxygen, phosphorus, and sulfur), creation of elements via stellar nuclear fusion, conditions favorable to life, potential abodes of life in the solar system.

Ningaloo: Australia's Other Great Reef

Recommended Grades 3 – 12+

A magical expedition with a 24-year-old marine biologist, Anna Cresswell, reveals intimate secrets of one of the world's largest fringing coral reefs, stretching 260 km along the northwest coast of Western Australia and visible from space. Travel in a two-person submarine, Odyssea, on an underwater adventure to explore an environment rich in coral, and a highway for the planet's largest and smallest fish, including the whale shark. This live action, fulldome film is an immersive voyage of discovery to witness Ningaloo Reef and the rare natural wonder and spectacle of life – coral spawning.

Concepts: Reef ecosystems, effects of climate change, interconnectivity of an ecosystem (from the smallest to largest creatures), coral reproduction, food chain.



Sea Lions: Life by a Whisker

Available after January 3, 2022

Recommended Grades 2 – 12+

Meet the Whiskers, a family of endangered Australian sea lions. Baby Otto has no one looking out for her, other than her mother. Then again, maybe there is somebody else: Ranger Dirk Holman is charged with preserving this species along Australia's rugged southern coast. This coming of age tale follows Otto and her mother as they struggle to survive and follows Dirk as he travels to California to learn the secrets to the recovery of the California sea lion. Will Dirk discover how to preserve the Australian sea lion? Will Otto survive the harsh realities of life off the southern Australian coast? Discover the answers in this film that is sure to engage your students.

Concepts: Species conservation and preservation.

Planetarium Favorites:

Many shows are accompanied by a Live Sky Tour, an interactive tour of the night sky. Students will learn about constellations and asterisms that they can see right from their own backyards!

The Accidental Astronauts

Recommended for grades 1-2

Follow the adventures of Cy, Annie, and Cy's dog Armstrong, as they embark upon an unexpected journey into space! This wonderful Earth, Sun and Moon adventure show is written by award-winning children's book writer Kristyn Crow.

Concepts: Earth's rotation and orbit, moon's orbit, phases of the moon, geography of the moon, lunar environment, physical nature of the sun, and the uniqueness of the Earth

Astronaut/Live Sky Tour

Recommended for grades 4-12+

What does it take to become an astronaut? Your students will find out by experiencing a rocket launch from inside an astronaut's body. Explore both inner and outer space in this exciting show.

Concepts: Human biology, space environment, effects of space environment on the body

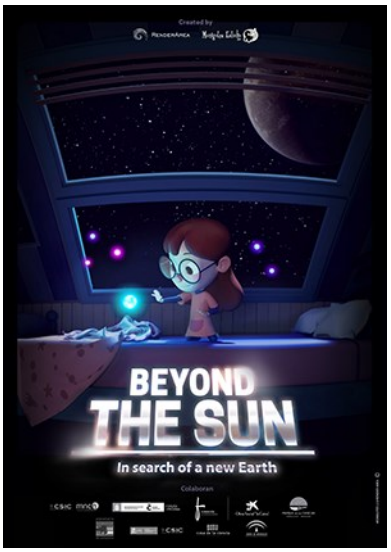
Big Astronomy: People + Places + Discoveries

Recommended for grades 6-8+

Take a trip atop Chile's Andes Mountains to visit the telescopes of the European Southern Observatory. With their dry air, dark skies, and remoteness, central Chile's high peaks offer spectacular locations from which to study the cosmos. Discover not only the places of Chilean astronomy, but also the people with multitude STEM backgrounds working together to run the various telescopes and scientific instruments. The program concludes with a virtual trip from southern Idaho to the Cerro Tololo Inter-American Observatory to tour the southern hemisphere night sky. See familiar constellations in not-so-familiar places and discover constellations not visible from Idaho and some of the celestial jewels of the sky south of the equator.

Concepts: STEM careers in astronomy, electromagnetic spectrum, electromagnetic waves, extrasolar planets, galaxies, Kuiper Belt, optical telescopes, planetary systems, radio telescopes.

An education guide with classroom activities is available for this program upon request.



Beyond the Sun: In Search of a New Earth

The show is available in Spanish, movie portion only. Request "Mas alla del Sol: En busca de una nueva Tierra."

Recommended for grades 3-5

Celeste is a curious girl, and with the help of her new friend Moon, she is about to learn about exoplanets (planets that orbit other stars). Moon also teaches her how astronomers can detect these planets, measure their size, and sense their surface conditions. Moon explains to Celeste what a planet must be like in order to have the possibility of life.

This program is followed by an interactive education module covering light pollution and methods for finding exoplanets, as well as a brief live sky tour.

Concepts: Brief overview of solar system; other stars have planets; transit method of planetary detection; radial velocity method of planetary detection; conditions on other planets; requirements for life; light pollution; search for planets that are Earth like.

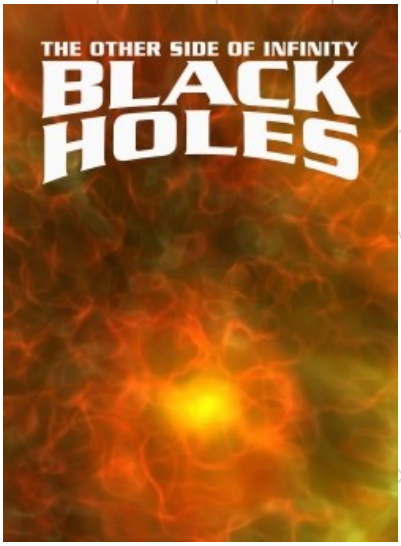
An education guide with classroom activities is available for this program upon request.

Birth of Planet Earth/Live Sky Tour

Recommended for grades 4-12+

The Solar System's formation from a huge cloud of gas and dust is tough for students to visualize. This show does an incredible job of explaining and depicting how the Earth was born. See the solar nebula collapse, countless dust particles clump into larger bodies, and asteroids coalescing into protoplanets. Observe the Earth-Theia collision that formed the Moon. Four and a half billion years roll by as today's solar system comes into being and students gain an understanding of how our Earth formed.

Concepts: Supernova synthesis of heavy elements; solar nebula; protoplanetary disc environment; planetary formation; characteristics of early Earth; formation of the Moon; Moon's stabilizing effects on Earth; asteroid bombardment period; evolution to a watery world; atmospheric development; rise of life; life's chemistry (photosynthesis).

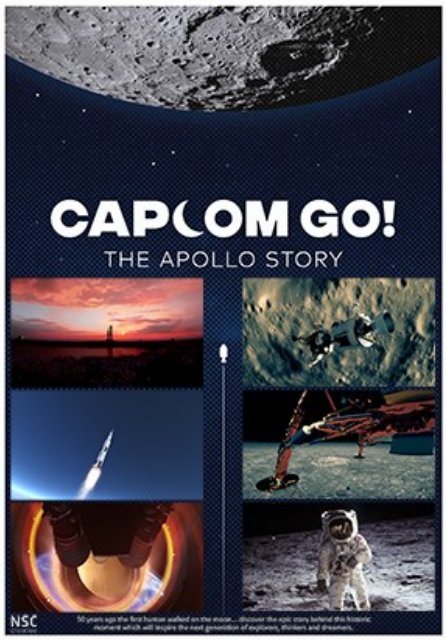


Black Holes: The Other Side of Infinity/Live Sky Tour

Recommended for grades 6-12+

Visit a place from which nothing—not even light—escapes: black holes. Zip through other-worldly wormholes, experience the creation of the Milky Way Galaxy, and witness the violent death of a star and subsequent birth of a black hole.

Concepts: Formation of the universe/big bang, galactic formation, stellar birth and death, nuclear fusion, supernovae, galactic collisions, formation of stellar and galactic black holes, nature of gravity, space/time, and event horizon

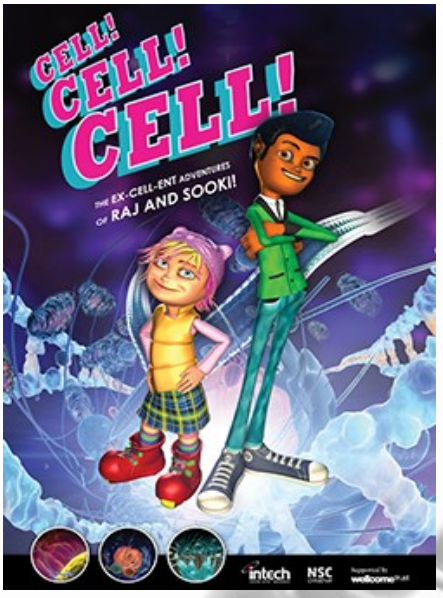


CAPCOM GO! The Apollo Story/Live Sky Tour

Recommended for grades 3-12+

On July 20, 1969, Neil Armstrong and Buzz Aldrin landed on the Moon, culminating nearly a decade of efforts by thousands of people working for NASA and private contractors. After this historic milestone NASA would go on to land five more pairs of astronauts on the Moon, the last in December of 1972. This immersive, historical documentary highlights the achievements of the Apollo program.

Concepts: History of Apollo program; cold war space race; navigational challenges in space; lunar surface conditions; Apollo spacecraft configuration; progression of skills/knowledge to get to the Moon; teamwork of scientists, engineers, and mathematicians; progression of Apollo missions; living/working in space; need for future STEM professionals.



Cell! Cell! Cell!

Recommended for grades 5-8

Join Raj and Sooki's ex-CELL-ent adventure as they examine the microscopic cells that make up all of us. Explore the human cell from within. Students will learn about the various parts of the cell and their functions; genetics, including egg fertilization and the genes that go into making each one of us unique; and the specialization of cells.
This program is followed by an interactive education module that delves deeper into cellular biology.

Concepts: Cell structure, DNA, genes, fertilization, stem cells, fetal cellular development, and cellular systems

Cosmic Colors: An Adventure Along the Spectrum/Live Sky Tour

Recommended for grades 5-12+

The universe is awash in radio waves, infrared light, visible light, ultraviolet light, microwaves, x-rays, and gamma rays pouring forth from various celestial objects. Learn about the electromagnetic spectrum and common, everyday application of these forms of energy in this fast-paced adventure.

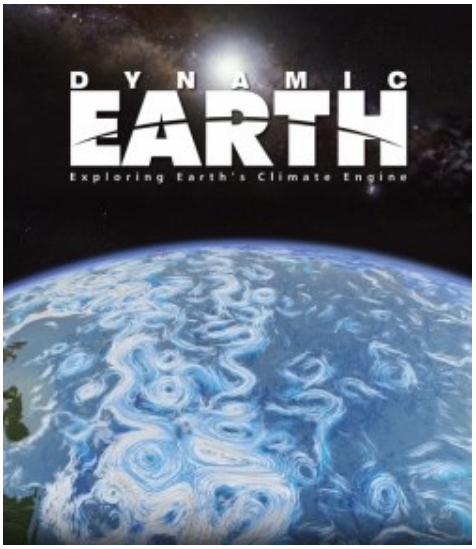
Concepts: Electromagnetic spectrum, visible light, infrared, radio waves, ultraviolet, gamma rays, wavelengths, color, and the speed of light

Dream To Fly

Recommended for grades 4-12+

Have you ever dreamt that you were flying? Explore humankind's quest for flight from the ancient myths of Aladdin's flying carpet and the kites of ancient China to Leonardo da Vinci's scientific study of wings and the pioneers of actual flight. Learn how history also shaped the early days of powered aviation with the advent of world wars. This poetic and visually stunning show takes you on a journey from the time when humans could only dream of flying to our modern day world where all one needs to fly is a ticket.

Concepts: Flight in mythology, history of flight/aviation, principles of flight (drag, lift and propulsion), pioneers of flight and aviation: Sir George Cayley, Montgolfier brothers, Otto Lilienthal, the Wright brothers



Dynamic Earth: Exploring Earth's Climate Engine/Live Sky Tour

The show is available in Spanish, movie portion only. Request "Tierra dinamica."

Recommended for grades 6-12+

What makes Earth so conducive to life? What drives the engine of weather and climate on our planet? Follow the energy trail from the Sun to Earth and learn about the interwoven systems of atmosphere, oceans, and the biosphere. Explore the winds, oceans, and forces of nature that shape Earth and our global climate system.

Concepts: Earth's climate, interconnectivity of systems, solar energy, greenhouse effect and gases, wind and ocean currents, weather, carbon cycle, oceanic food chain, volcanism, and anthropologic global warming

Earth, Moon & Sun/Live Sky Tour

Recommended for grades 3-6

Coyote has a razor-sharp wit and thinks he knows a lot about the sky. As it turns out, he's a little confused. Coyote, adapted from an American Indian oral tradition, gets set straight about his many misconceptions about lunar phases, eclipses and other puzzles of the sky. This is a great program to reinforce students' understanding of the Sun, Moon, and stars.

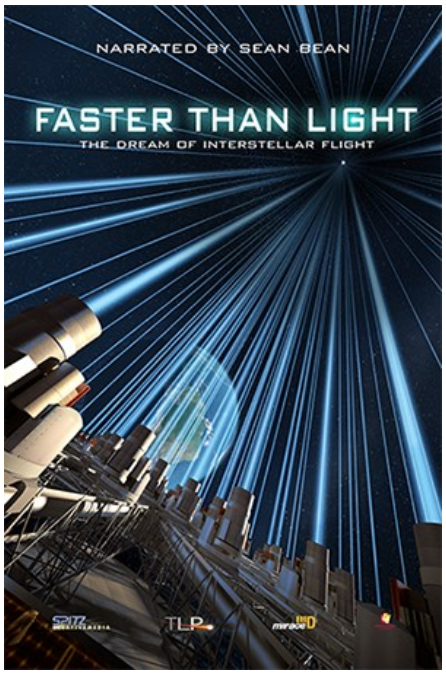
Concepts: Physical nature of the Sun and Moon, rotation, revolution, lunar phases, lunar and solar eclipses, manned exploration of the moon, and Native American sky lore

Extreme Weather

Recommended for grades 3-12+

Extreme weather, driven by the changing climate, gives rise to powerful hurricanes, torrential downpours, drought, and natural disasters. National Geographic brings you face to face with Mother Nature at her most dangerous in this film. Experience the action of massive chunks of ice shearing off of a melting Alaskan glacier, deadly tornadoes in the Midwest, wildfires raging in drought-ravaged California, and the surprising links between these three areas.

Concepts: Climate change; global warming's effect on weather; glacier retreat; oceans as the engines of global weather; tornado development; drought induced wildfire; sea level rise; interconnectivity of systems that shape global climate, regional weather, and extreme weather.

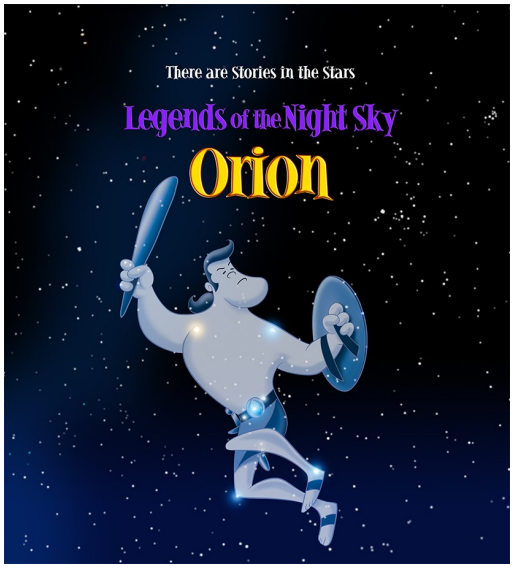


Faster Than Light: The Dream of Interstellar Flight/Live Sky Tour

Recommended for grades 4-12+

Scientists believe solar systems fill our galaxy, including up to nine billion Sun-like stars with Earth-like planets. Astronomers are now racing to find habitable worlds, including any that might exist in the neighborhood of our Sun. Take a virtual ride aboard spacecraft of the future, based on new technologies designed to achieve ultra-high speeds, using exotic fuels and breakthrough concepts in physics. How far can our technology take us?

Concepts: Space exploration and its challenges; distances in space; interstellar neighborhood; nature of Proxima Centauri's planet; inefficiencies of chemical rockets; gravitational slingshot; space propulsion/spacecraft technologies (nuclear fission and fusion, lasers, antimatter, warp drive); future exploration of exoplanets.



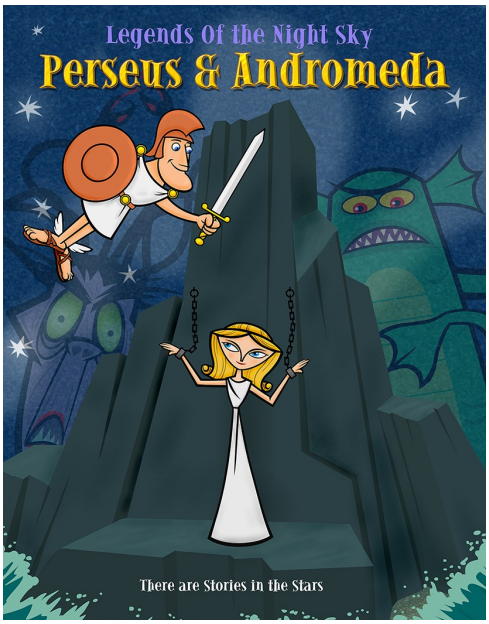
Legends of the Night Sky: Orion/Live Sky Tour

Recommended between January and mid-April

Recommended for grades K-5

The legend of Orion, the mighty hunter, comes to life! From his humble beginnings to his daring hunting exploits and romances, Orion and his faithful hunting dogs, Sirius and Procyon, move from adventure to adventure. Eventually, having earned the scorn of Apollo, Orion battles Scorpius, the scorpion, in a fight to the death. Discover how, upon his demise, Orion was spirited into the winter sky for all to see, along with his two faithful companions.

Concepts: Greek mythology, constellations, star gazing, and star hopping.



Legends of the Night Sky: Perseus and Andromeda/Live Sky Tour

Recommended between October and mid-February

Recommended for grades K-5

The classic Greek story of the princess and her hero come to life! Poor Andromeda is being sacrificed to the sea monster Cetus for the sins of her mother, Cassiopeia. Just what led to this calamity? Where is her father, Cepheus, in all this? It all sounds so terrible; she needs a hero. Never fear, for Perseus is almost here! But, before rescuing Andromeda, Perseus must survive the petrifying Gorgon, Medusa. Will the story end happily? Join us to find out.

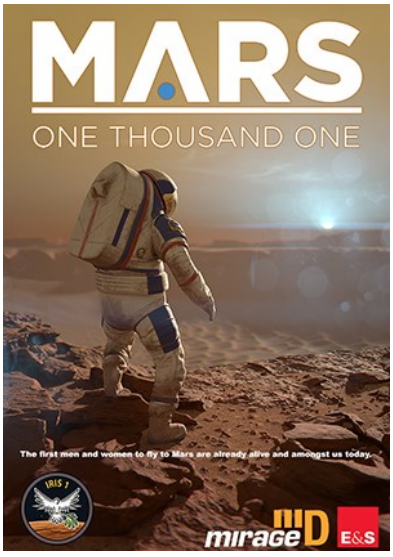
Concepts: Greek mythology, constellations, star gazing, and star hopping.

The Little Star That Could

Recommended for grades K-2

Poor Little Star is new to the universe and just wants to see what else is out there. Judging by the reactions of the other stars he meets, he is destined to be nothing more than average. On his journey of discovery, Little Star learns what makes each star special. For some, it is their color and temperature, for others it may be their planets, or their stellar companions. Along the way, he discovers that stars can combine to form larger groups, like star clusters and galaxies. Eventually, Little Star finds his planets who tell them a little about themselves and give him his special name, the Sun.

Concepts: Star formation, star colors and temperatures, multiple star systems, star clusters, galaxies, solar systems, planets, and basic information about the planets of our solar system.

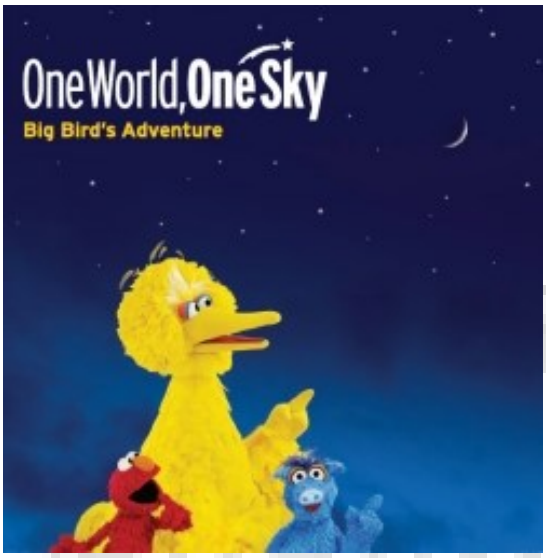


Mars One Thousand One

Recommended for grades 3-12+

Enjoy this fun, fictional depiction of a future mission of an international crew of astronauts as they embark on the first manned mission to the surface of Mars. Witness firsthand their brave attempts to put human footprints on Mars and return safely to Earth. The journey, made possible through the biggest engineering feat ever, is fraught with dangers, loaded with scientific experiments, and may determine if humankind has a future among the stars. What dangers and wonders lurk on the dusty plains of the Red Planet?

Concepts: Human space exploration; space environment/weather; interplanetary navigation; nature of the Martian environment; long-term human survival in space.



One World, One Sky: Big Bird's Adventure

Recommended for grades Pre-K-1

Join Sesame Street's Big Bird, Elmo, and their friend from faraway China, Hu Hu Zhu, as they learn about the sky in this fun adventure. The three sky watchers learn about sunsets and finding starry patterns like the Big Dipper in the night sky. Students are encouraged to use their imaginations and actively participate in this program.

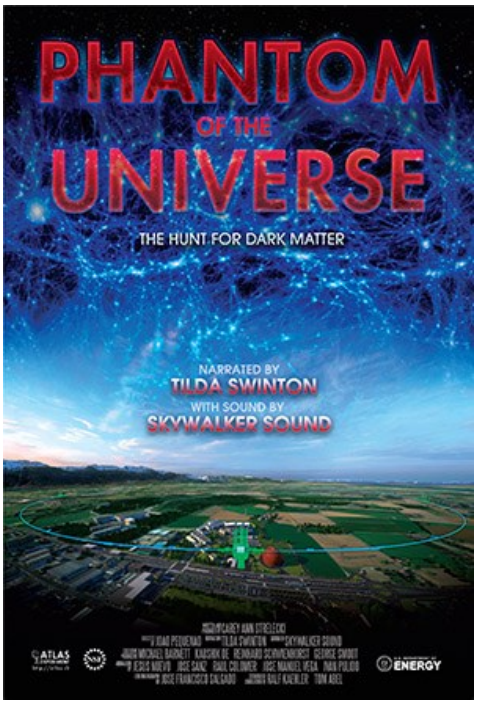
Concepts: The Sun is a star, day and night, star patterns like the Big Dipper, the Moon, physical characteristics of the Moon, faraway places, and using one's imagination

Perfect Little Planet

Recommended for grades 1-3

Discover our solar system through a new set of eyes—those of a family from another solar system seeking the perfect vacation spot. Fly over the icy surface of dwarf planet Pluto, sail through the rings of Saturn, brave Jupiter's raging lightning storms, and kick up some red dust on Mars. With the best vacation spots in the solar system to choose from, where would your students visit?

Concepts: Solar system, sun, planets, moons, asteroids, comets, gas giants, rocky midgets, icy dwarfs, physical nature of the sun and eight planets, rings, atmospheres, and life forms of Earth

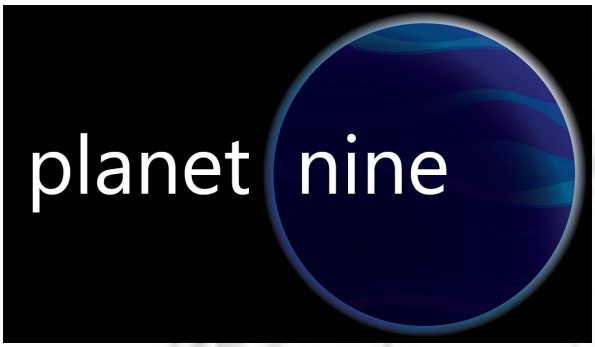


Phantom of the Universe: The Hunt for Dark Matter/Live Sky Tour

Recommended for grades 5-12+

Just imagine: The matter we see—stars, planets, and galaxies—makes up only five percent of the universe. Another twenty seven percent of the universe is made of mysterious dark matter. Hints of its effects on the matter we can see have been around for a century, yet its true nature continues to elude us. Journey from mountaintop observatories to subterranean atom smashers and particle detectors with scientists hot on the trail of the invisible stuff that shapes galaxies.

Concepts: Birth of the universe; atomic and subatomic particles; structure of the universe (galaxies and galaxy clusters); Newton's Law of Gravitation; evidence for and nature of dark matter; search for dark matter with the Large Hadron Collider; proton-proton collisions; new theories of elementary particles.

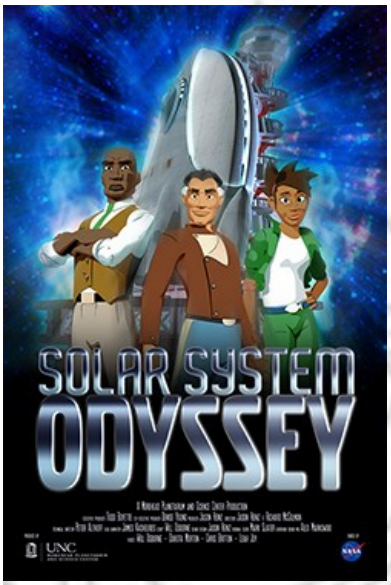


Planet Nine/Live Sky Tour

Recommended for grades 6-12+

Dr. Mike "Pluto Killer" Brown leads the search for a giant, yet elusive planet that may be lurking in the solar system's outer fringes. Having discovered Eris—the Kuiper Belt object more massive than Pluto—and subsequently contributing to the demotion of Pluto from planetary status, Mike and his team believe they have evidence for a true ninth planet that is shaping the outermost KBOs' orbits. This engaging program explores the true nature of solar system research and discovery. What is the evidence for this purported planet? How are astronomers hunting for it? What is the status of the search for Planet Nine? The answers await your discovery.

Concepts: Brief overview of Pluto system and orbit, telescopic detection/searches for previously unknown solar system bodies, discovery of Eris, nature of Kuiper belt and the KBOs found within it; including Eris, Makemake, Quaoar, Orcus, Vanth, Sedna and Haumea, orbital dynamics, computer simulations of solar system orbital dynamics, search for hypothesized "Planet Nine"



Solar System Odyssey

Recommended for grades 4-6

Join former Space Fleet Command pilot Jack Larsen on a mission in search of a suitable extraterrestrial location for human colonization. Along with a surprise stowaway, he embarks upon a wild ride through the solar system trying to answer these questions: How are the worlds of the solar system alike? How are they different? What features must a world possess for humans to live there?

This program is followed by a live interactive education module that further explores what humans need to survive away from Earth.

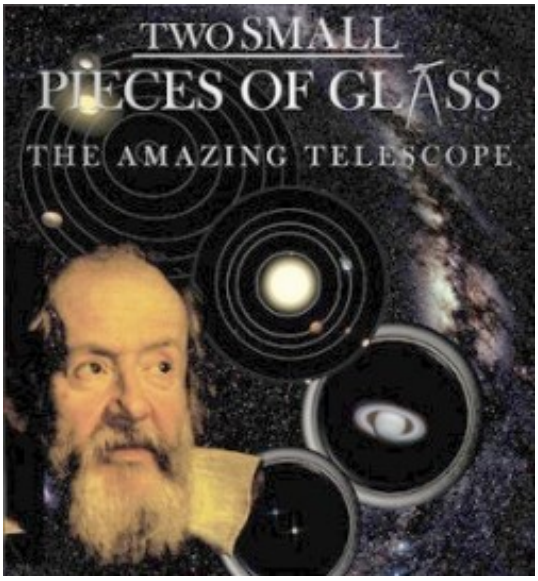
Concepts: Requirements for long-term human survival away from Earth; the solar system; physical nature of Titan, Calisto, Europa and Io; and the unique nature of the Earth as it pertains to life

The Sun: Our Living Star/Live Sky Tour

Recommended for grades 4-12+

The Sun has shone on our world for four and a half billion years, providing the energy that drives the winds, our weather, and all life. The passage of the Sun's fiery disc across the sky – day by day, month by month – is how civilizations have tracked time. As a typical dwarf star, the Sun consumes 600 million tons of hydrogen each second and is 500 times as massive as all the planets combined. Discover the secrets of our star and experience never-before-seen images of the Sun's violent surface in an immersive format.

Concepts: Sun's birth and age, use for tracking time, apparent motions, physical structure and properties, and ties to Earth's weather; source of Earth's energy; life's dependence on the Sun; photosynthesis; heliocentric model of solar system; comparison to other stars; nuclear fusion; remote observations; electromagnetic spectrum; space weather; renewable energy



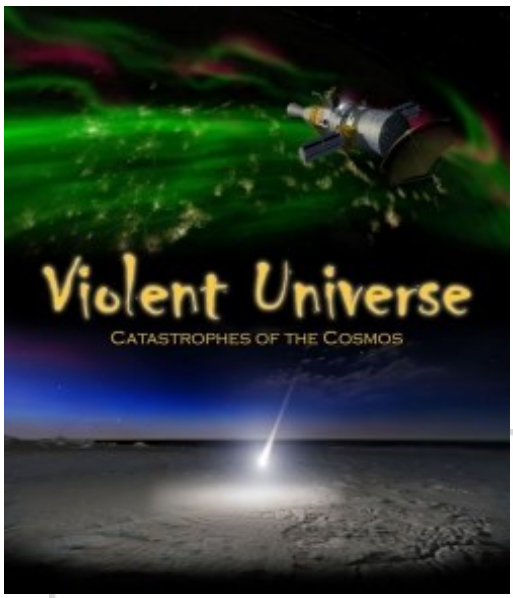
Two Small Pieces of Glass: The Amazing Telescope/Live Sky Tour

Recommended for grades 5-12+

In 1609, Galileo first turned his crude "spy glass" telescope skyward. Four centuries later, the telescope has evolved into modern wonders of technology like the Hubble Space Telescope. Join two young sky watchers and their astronomer friend as they explore the universe and learn why telescopes are such important tools of science.

Pair this show with an observatory program and look through our 24 inch telescope!

Concepts: Design and nature of telescopes, historical overview of astronomy, spectrum, optics

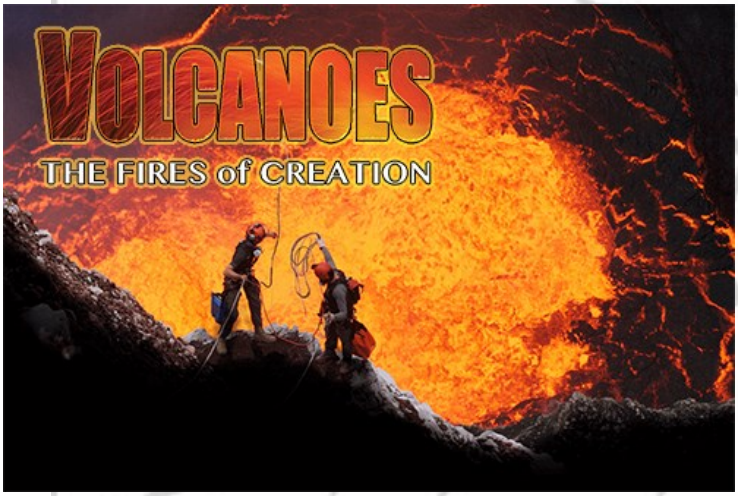


Violent Universe: Catastrophes of the Cosmos/Live Sky Tour

Recommended for grades 4-12+

Few things appear more peaceful than a quiet, starry sky. Yet, terrific, unseen forces shape the cosmos: Galaxies collide, supernova explosions rip stars apart, black holes in the hearts of galaxies devour whole stars, and asteroids and comets streak earthward.

Concepts: Galactic collisions, galactic dust clouds, supernovae, black holes, meteor storms, meteor showers, comet/asteroid/planetary collisions, cratering, gamma ray bursts, and the Milky Way's central black hole



Volcanoes: The Fires of Creation

Recommended for grades 3-12+

Volcanic eruptions are rare, dangerous—and alluring. Witness the crucial role volcanoes played in the tumultuous birth of our planet. Join National Geographic photographer Carsten Peter's quest to see volcanoes from the inside as he braves Kilauea's churning lava lake and fire fountains. You may never get as close to an active volcano as Carsten does, but you can go there from the safety of your planetarium seat.

Concepts: Impact hypothesis of Earth's and Moon's formation; volcanoes' role in shaping Earth; plate tectonics; creation of Earth's atmosphere and oceans via outgassing; submarine volcanoes; dynamics of volcanic eruptions; benefits of ash to ecosystems; dangers posed by volcanoes

We Are Stars/Live Sky Tour

The show is available in Spanish, movie portion only. Request "Somos Estrellas."
Recommended for grades 4-12+

With the arrival of the carnival comes the Time Master, whose tent leads you on a whimsical tour of cosmic time. From the Big Bang to the present, discover how the universe brought forth life on one small planet orbiting a yellow star. The Time Master's mechanical wonderments illustrate key scientific concepts that illuminate humanity's origins. This steampunk-themed show blends humor and insight to illustrate how we are all made of stars.

Concepts: Big Bang, cosmology, stellar evolution, formation of elements through nuclear fusion, planetary formation, the origins of primitive life, biological processes and evolution

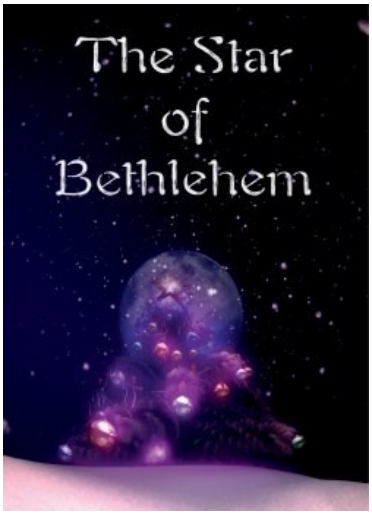
Seasonal shows:

Available Nov. 30th—Dec. 21st

Let It Snow!

Recommended for grades Pre-K-12+

It's a holiday treat for the eyes and ears, featuring festive full-dome video images choreographed to classic Christmas music. Enjoy seasonal tunes by Frank Sinatra, Chuck Berry, Burl Ives, Brenda Lee, and a finale by the Trans-Siberian Orchestra. This family-friendly audio-visual experience is a great seasonal show to reward your students for reaching classroom performance goals, or just for a fun field trip.



The Star of Bethlehem

Recommended for grades 3-12+

Explore the age-old mystery of the star of Bethlehem in this Christmas planetarium program. Travel back in time to the Middle East and search for clues in ancient writings, including Biblical scripture, and seek a natural cause for the phenomenon of the Star. Or, is the Star's cause destined to remain in the realm of the miraculous?

Concepts: Lunar eclipses, source of the modern calendar, comets, meteors, supernovae, planetary conjunctions, winter solstice and ancient perceptions of the nature and meaning of celestial objects and motions

Note: This program has strong religious components.

Observatory Programs:

Yes, our observatory is open in the daytime! The Sun's gaseous explosions and boiling surface can be viewed safely through our solar filters. Often the moon, stars, and the occasional planet can also be spied. Nothing makes the wonders of the universe more real for your students than seeing it with their own eyes!

The Herrett Center's Centennial Observatory features:

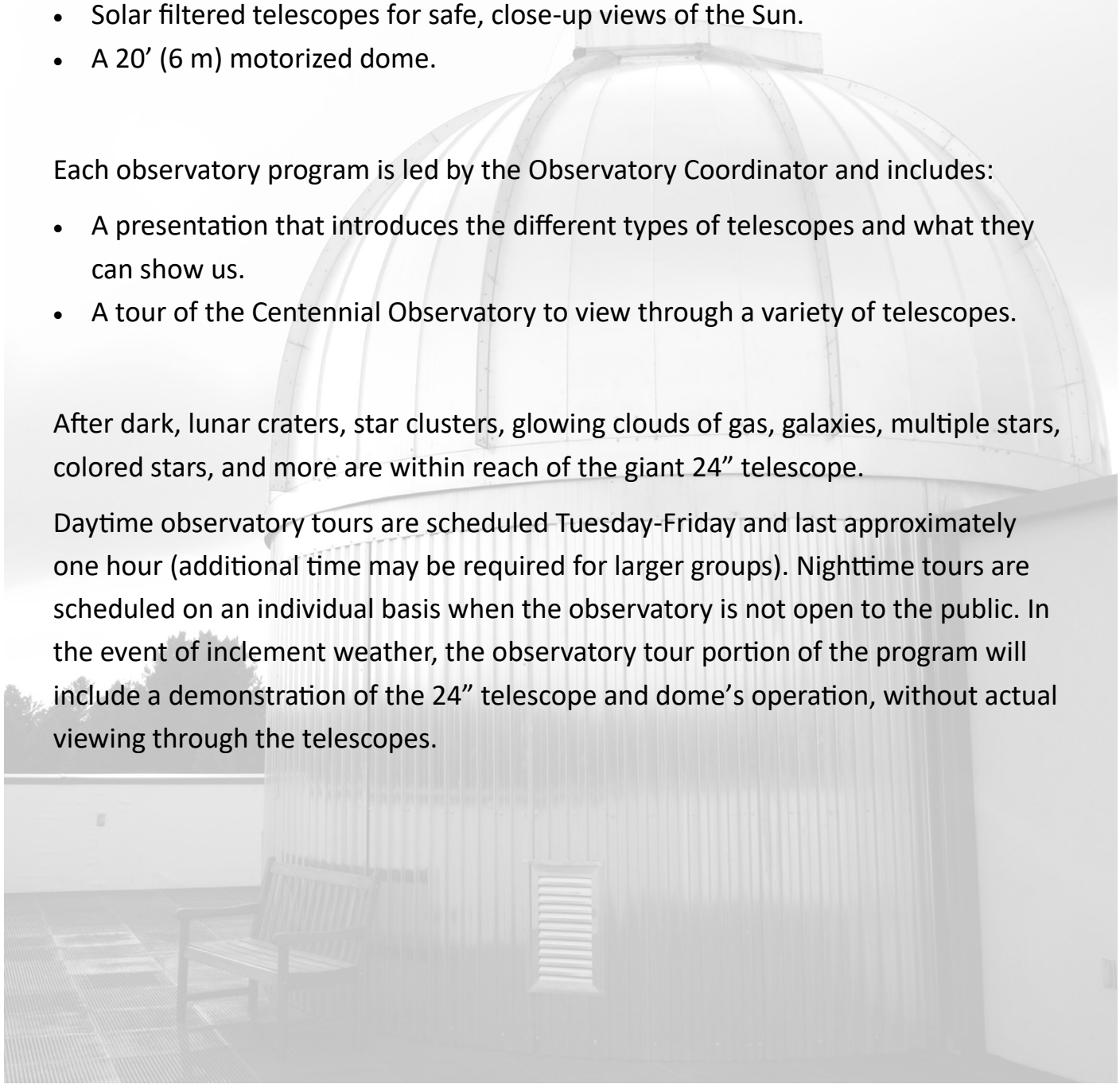
- The Norman Herrett 24" (0.6m), computer-controlled reflector telescope, with full wheelchair access.
- Solar filtered telescopes for safe, close-up views of the Sun.
- A 20' (6 m) motorized dome.

Each observatory program is led by the Observatory Coordinator and includes:

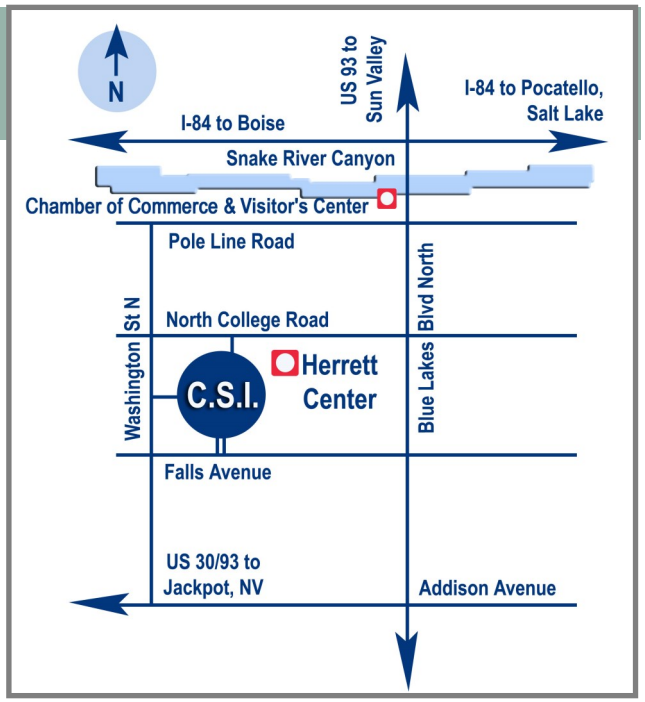
- A presentation that introduces the different types of telescopes and what they can show us.
- A tour of the Centennial Observatory to view through a variety of telescopes.

After dark, lunar craters, star clusters, glowing clouds of gas, galaxies, multiple stars, colored stars, and more are within reach of the giant 24" telescope.

Daytime observatory tours are scheduled Tuesday-Friday and last approximately one hour (additional time may be required for larger groups). Nighttime tours are scheduled on an individual basis when the observatory is not open to the public. In the event of inclement weather, the observatory tour portion of the program will include a demonstration of the 24" telescope and dome's operation, without actual viewing through the telescopes.



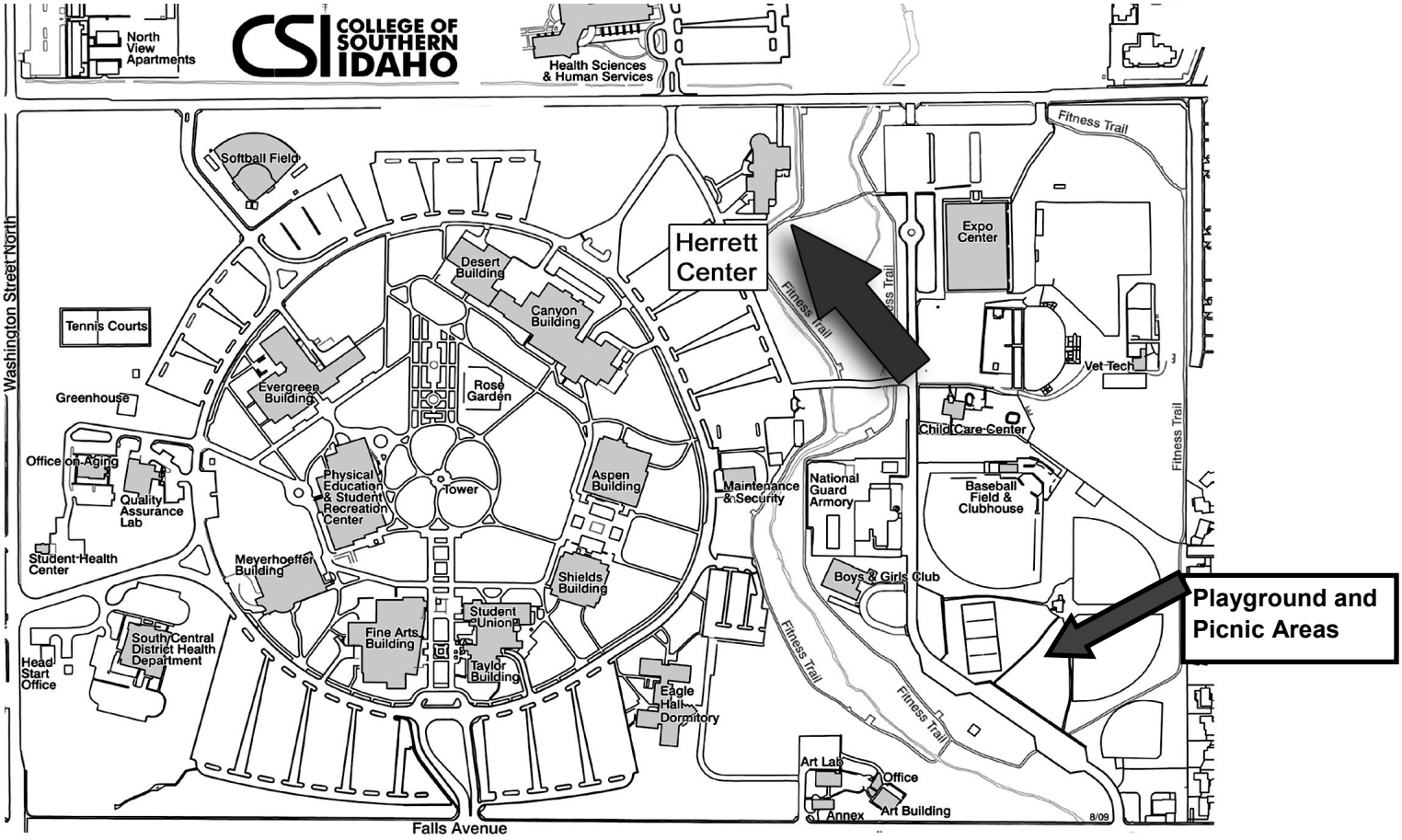
Getting Here:



The Herrett Center is located on the College of Southern Idaho campus, just off of North College Road.

From the north (I-84/HWY 93): After crossing the Perrine Bridge, head south on Blue Lakes Boulevard for about one mile. Turn right onto North College Road (near Lowe's and Tomato's Italian Grill). After the light, bear left at the Y to stay on North College Road, then turn left onto CSI campus after you see the museum building with its dome.

From the west/south (HWY 30/93): Turn left off of Addison Avenue onto Washington Street North (near McDonald's and Swensen's). Drive north for 1.5 miles, then turn right onto North College Road. Travel east for about half a mile, then turn right onto CSI campus.



Worried about funding your field trip? We suggest looking for grants that would help with field trip costs at the website below:
https://idaho.grantwatch.com/

Want to see if some of your transportation costs can be reimbursed by the State Department of Education? Check out their website to see if your field trip transportation costs qualify at:
http://www.sde.idaho.gov/student-transportation/

Things to know before your visit:

Arrivals and departures

- Plan to arrive at least 15 minutes* before your program's scheduled start time. This allows time for unloading buses, paying for your program, using the drinking fountain, and using the restrooms.
- For pick-ups and drop-offs, a bus turnout is located at the end of the sidewalk near the front entrance to the center.
- After unloading, please park buses in the public parking areas southwest of the building. On busy occasions, buses may need to find space just east of the Herrett Center near the Expo building. Parking is free.

* *Large groups should plan to arrive 30 minutes before the scheduled start time. Please speak with the Events & Academic Coordinator to help determine how early your group will need to arrive before your program starts.*

Lunch areas

The Herrett Center does not have sheltered picnic areas. You are welcome to eat your lunches outside on the CSI grounds or nearby picnic areas (see map on previous page). During inclement weather, it may be possible for students to have lunch in the in the Rick Allen Room at the Herrett Center. This room cannot be reserved and is subject to availability. Please speak to the Educator about use of this room.

Gift Shop

The Herrett Center Store is open during regular business hours. If you and your students would like to shop, we encourage you to do so. We recommend that no more than 10 students are in the store at once and that they are accompanied by at least one chaperone. **Teachers receive a 20% discount** on items that will be used in their classroom! (Some items may be excluded.) The store makes a special effort to have affordable and educational items available for you and your students. By allowing your students to shop in the store, you are helping to support our educational programs. Our staff is always happy to assist you in making this an enjoyable experience for both students and teachers. Please let us know in advance if you plan to allow your group to shop.

The Herrett Center for Arts and Science recommends that teachers or parents preview shows and exhibits prior to bringing younger visitors to the Center. Images and concepts seen in shows and exhibitions at the Herrett Center may not necessarily reflect the official views of the Herrett Center or the College of Southern Idaho.

About your visit:

Scheduling and confirmation:

- Please try to schedule your visit at least one month in advance, especially during busy times of year such as April and May.
- Provide the Events & Academic Coordinator with as many details about your group as possible to ensure that you have the best visit possible, i.e. students' special needs, time constraints, expected time in the galleries/ shop.
- You will receive a confirmation email with your customized trip details before your visit. If you have not received the email one week prior to your scheduled visit, please contact the Events & Academic Coordinator.
- Please arrive with a final head count of both students and chaperones for the front desk upon check-in.

Cancellations:

- Please contact the Events & Academic Coordinator at your earliest convenience if you need to cancel your visit. We will try to reschedule your group, but we cannot guarantee dates or times.
- If a portion of your program must be canceled because of equipment failure, or other reasons, your admission fees may be partially or entirely refunded.

Contact information:

Events & Academic Coordinator: (208) 732-6657
Educator: (208) 732-6664
Herrett Center Front Desk: (208) 732-6655
Herrett Center Fax: (208) 736-4712
Observatory Information: (208) 732-6666
Observatory Coordinator: (208) 732-6663
Planetarium Manager: (208) 732-6659
CSI Switchboard: (208) 733-9554

Tips for a great visit:

Before you arrive:

- Preview museum exhibits and programs to make sure that content is appropriate for your group.
- Assign one adult chaperone for each 10 students. We reserve the right the refuse admittance to groups who are do not have adequate supervision.
- Chaperones are to stay with their assigned groups at all times, especially in the gift shop.
- Please notify chaperones of their responsibilities in advance.
- Plan to arrive at least 15 minutes* before your first scheduled program to facilitate check-in, payment, and restroom use.

* *Large groups should plan to arrive 30 minutes before the scheduled start time. Please speak with the Educator to help determine how early your group will need to arrive before your program starts.*

Inside the Center:

- Check in at the front lobby desk and pay for your entire group with one payment.
- Please be prompt. Late arrivals may not receive their scheduled program.
- Upon arrival, have students quietly use the restrooms and drinking fountains; a typical class of 30 students will need 5-10 minutes to use the facilities.
- We welcome cameras, but there may be restrictions in some areas.
- Please turn off all cell phones while inside the Herrett Center.
- No gum, food, or drinks are allowed inside the museum.

In the Faulkner Planetarium:

- Do not exceed your reservation number without notification. Theater capacity is 144.
- Plan to arrive at least 15 minutes* before your scheduled show. Late arrivals may not be admitted into the theater.
- If anyone must leave during a planetarium show, there can be no re-admittance.
- Disruptive individuals may be asked to leave the theater.

* *Large groups should plan to arrive 30 minutes before the scheduled start time. Please speak with the Educator to help determine how early your group will need to arrive before your program starts.*

In the Centennial Observatory:

- The observatory is not heated in order to minimize thermal distortion of telescope views. Observatory visitors should dress for outside temperatures.

Please advise all chaperones of these policies, especially those bringing infants.