

DVT/Space Museum - Public Show Schedule

September 11, 2019 – May 19, 2020

All shows approximately 45-50 minutes

Regular show ticket price: \$5 Adults, \$3 Senior Citizens/Students/Children

Laser Music Shows: All Tickets \$5 (February & March)

All events are posted on Facebook under PHM DVT & Planetarium

Tickets may be purchased at www.phmschools.org under "Community"

TRIP THROUGH SPACE &

September 11

Wednesday 6:30 pm

TWO SMALL PIECES OF GLASS

This full-dome show is a potpourri of Astronomy topics such as: moon phases, eclipses, tides, lunar surface features, the Solar System, eight winter constellations and their bright stars, the Earth's motions and seasons, star types, galaxies, formation of stars, and the size of the Universe in general.

The second show tells how Galileo's telescopic observations began a revolution, transforming our view of the cosmos and our place within. Discover the wonders that even a small amateur telescope can reveal and learn about the scientists that made such views possible.

FALL NIGHT SKY &

September 19

Thursday 6:30 pm

LEGENDS OF THE NIGHT SKY: PERSEUS/ANDROMEDA

Legends of the Night Sky: Perseus/Andromeda engages the audience with a wonderful story filled with humorous and exciting characters, and also engages their desire to learn about astronomy. This educational, and entertaining show is for adults as well as children. Aesop the owl and Socrates the mouse tell how Perseus saves Andromeda from Cetus the Sea Monster.

Also, join us for a brief overview of the current night sky, which includes constellations, stars, the Milky Way, and the planets. Come see what you can look forward to in the sky this fall!

EGYPT: SECRETS OF THE MUMMIES

September 25

Wednesday 6:30 pm

Journey to the royal tombs of Egypt and explore the history of ancient Egyptian society as told through the mummies of the past. The film follows explorers and scientists as they piece together the archaeological and genetic clues of Egyptian mummies, and provides audiences with a window into the fascinating and mysterious world of the pharaohs. To unwrap the secrets of the mummies is to perhaps glimpse our own future.

ESCHER'S UNIVERSE

October 1

Tuesday 6:30 pm

Escher's Universe is based on the life and work of the multifaceted Maurits Cornelis Escher. Was he an artist, an astronomer, a mathematician, a traveler? This show will take us to the artist's studio where his most iconic works are displayed. From this intimate and emotional place, we'll visit Escher's particular universe and we will be surprised by his ability to join science and art. He uses mathematics, astronomy, optics, crystallography and geometry in his creations to artistically explain very complex concepts addressed by cosmology.

ONE WORLD, ONE SKY: BIG BIRD**October 9****Wednesday 6:30 pm**

The show follows Sesame Street's Big Bird and Elmo as they explore the night sky with their friend from China, Hu Hu Zhu. Together, they take an imaginary trip from Sesame Street to the Moon, where they discover how different it is from Earth. Children attending the show can interact as they watch, drawing constellations and counting the time it takes the sun to set. Students will also learn about the Big Dipper, the North Star, the Sun, and the Moon.

DIABETES: OUR CELLS, OURSELVES & MICROCOSM**October 17****Thursday 6:30 pm**

Our Cells explores the immune system, giving children and their families an understanding of how the body protects itself. We start with a bedtime story told to 7-year old Sylvie, who was recently diagnosed with diabetes. In a dream-like sequence, we learn how the immune system evolved, then take a look at the future of regenerative medicine therapies that rely on harnessing the body's own restorative potential through the use of stem cells.

Microcosm takes place at the Center of Miniaturized Medicine in the year 2053. You'll shrink down to the size of a microbe and be injected into a patient who is suffering from a mysterious viral infection. As you piece together the clues found along the way, you'll race against time to save the patient on a roller-coaster ride through the heart, lungs, brain, eye, ear, and circulatory system in general. Laser battles, genetic weapons, and lots of surprises along the way make this show an exciting experience.

LASER FRIGHT LITE 1 (\$5)**October 29****Tuesday 6:30 pm**

Get into the spooky spirit with this special Halloween Laser Show! This must-see evening laser show combines haunting tunes and an amazing laser light show that dances across the DVT's 30-foot dome. The water-vapor-based haze machine makes the laser lights stretch across the room!

Soundtrack: Thriller, Godzilla, Monster Medley (*Monster Mash, Purple People Eater, Boris the Spider*), Enter Sandman, Men In Black, Attack of the Radioactive Hamsters, Firestarter, Dead Man's Party, Iron Man, Another Brick in the Wall, Push It, Frankenstein, Devil Went Down to Georgia, Feed My Frankenstein.

LASER FRIGHT LITE 2 (\$5)**October 29****Tuesday 8:00 pm**

Get into the spooky spirit with another special Halloween Laser Show! This must-see evening laser show combines haunting tunes and an amazing laser light show that dances across the DVT's 30-foot dome. The water-vapor-based haze machine makes the laser lights stretch across the room!

Soundtrack: Thriller, Godzilla, Monster Medley (*Monster Mash, Purple People Eater, Boris the Spider*), Close Encounters of the Third Kind, Men In Black, Attack of the Radioactive Hamsters, Re:Your Brains, Dead Man's Party, Iron Man, Horror Movie Medley (*Theme from Nesferatu, Psycho, Jaws, Halloween, Insidious*), Frankenstein, Devil Went Down to Georgia, Feed My Frankenstein.)

D-DAY: NORMANDY 1944**November 7****Thursday 6:30 pm**

June 6, 1944: The largest Allied operation of World War II began in Normandy, France. Yet, few know in detail exactly why and how, from the end of 1943 through August 1944, this region became the most important location in the world. Audiences of all ages, including new generations, will discover from a new perspective how this landing changed the world. Exploring history, military strategy, science, technology and human values, the film will educate and appeal to all. Narrated by Tom Brokaw.

IMAGINE THE MOON (NEW SHOW!)

November 13

Wednesday 6:30 pm

Imagine the Moon explores how the Moon has inspired human creativity, learning, and exploration ever since we have looked to the sky. Through beautiful imagery and historical footage, we explore our closest celestial neighbor! Each discovery has brought new opportunities to contemplate and imagine, until, driven by dreams, we left Earth and went there in the amazing journeys that culminated in astronauts walking on the Moon. People have imagined the Moon as a glowing disk in the sky, a destination in space, and a world that shares its origin with the Earth. The power of human imagination continues to inspire our relationship with the Moon as our partner in space and companion in our sky.

Holiday Shows (December 4th-18th)

The **planetarium will be decked out as a winter wonderland during the entire month of December**, so come enjoy the beautiful winter wonderland along with each and every holiday show!

SEASON OF LIGHT

December 4

Wednesday 6:30 pm

December 14

Saturday 4:00 pm

This show traces the development of many of the world's endearing holiday customs, and how they involve lighting up the winter season-from the burning of the Yule log and sparkling Christmas tree lights to the lighting of the Menorah and luminarias. In addition, we will be detectives trying to solve the mystery of the Star Over Bethlehem. The **planetarium will be decked out as a winter wonderland**, so come enjoy the beautiful winter wonderland as well!

LASER HOLIDAYS 1

December 10

Tuesday 6:30 pm

December 14

Saturday 5:00 pm

This is a professional laser light show, containing 12 holiday songs, including Dance of the Sugar Plum Fairy, Silent Night, Frosty The Snowman, and accompanying laser animations. The **planetarium will be decked out as a winter wonderland**, so come enjoy the music, laser lights, and beautiful winter wonderland as well!

LASER HOLIDAYS 2

December 14

Saturday 3:00 pm

December 18

Wednesday 6:30 pm

This is another professional laser light show, which contains 12 holiday songs, including Up on the Housetop and All I Want for Christmas is My Two Front Teeth, and accompanying laser animations. The **planetarium will be decked out as a winter wonderland**, so come enjoy the music, laser lights, and beautiful winter wonderland as well!

BREAKFAST WITH SANTA

December 7

Saturday

8:00am, 9:30am, & 11:00am

Enjoy a fabulous breakfast in the Bittersweet Elementary cafeteria with Santa. In addition to breakfast, you may visit the DVT/Planetarium, which will be decked out as a Winter Wonderland, to see our 25-minute version of "Laser Holidays 2". **Tickets must be purchased in advance** from the **PHM Community Education Office** located at the **ESC (#259-7941)** or online at **phm.revtrak.net** **Cost: \$7**

-----End of Holiday Shows-----

**ASTEROID: MISSION EXTREME &
ICE WORLDS**

January 9

Thursday 6:30 pm

In *Asteroid: Mission Extreme*, audiences are taken on an epic journey to discover how asteroids are both a danger and an opportunity. The danger lies in the possibility of a cataclysmic collision with Earth; the opportunity is the fascinating idea that asteroids could be stepping stones to other worlds – veritable way stations in space – enabling us to cross the Solar System. Explore what it would take for astronauts to reach an asteroid and how such an adventure could benefit humankind.

In *Ice Worlds*, we will explore the delicate balance between ice, water and the existence of life, which has been a topic of scientific inquiry for generations. In travels to the Arctic and Antarctic regions of our planet, we'll examine the ecosystems that exist and thrive there and learn how their survival is connected with our own. Beyond Earth, we'll see how the existence of ice shapes the landscape and the natural systems on other planets and moons in our Solar System.

THE WINTER NIGHT SKY

January 15

Wednesday 6:30 pm

Would you like to know an easy way to find and identify those winter constellations? Come join us for a live presentation and overview of the current winter night sky, which includes constellations, stars, colors of stars, the Milky Way, planets and more!

**ASTROLOGY: STAR SIGNS &
6:30 pm**

January 22

Wednesday

LEGENDS OF THE NIGHT SKY: ORION

Astrology: Star Signs includes Zodiac constellation patterns, with mythological tales. *Astrology and the fallacy of astrology* are demonstrated and explained. Also, included are excellent demonstrations of Earth motions like rotation, revolution, and precession, as well as the reasons for the seasons.

Legends of the Night Sky: Orion brings the mythological Orion to life in a fun-filled, animated adventure. Accompanied by narrators Aesop the owl and Socrates the mouse, we follow Orion's adventures as he grows to manhood, battles mythical beasts, foils the plot of an evil king and wins the heart of Artemis, the beautiful moon-goddess. By the end of the story, we learn how the constellation Orion was placed in the sky, forever turning overhead throughout the seasons.

SECRETS OF THE SUN &

SECRET LIVES OF THE STARS

January 30

Thursday 6:30 pm

Secrets of the Sun is an intimate look at the role the Sun plays in the life of our solar system. From the nuclear forces churning at the heart of the Sun to the mass ejections of solar material into surrounding space, we experience the power of the Sun and its impact on the planets and ultimately life on Earth. We trace the Sun's life cycle, going back to its beginnings and moving forward in time to its eventual death.

Secret Lives of the Stars shows us not all stars are created equal. Some are massive. Others are tiny; almost insignificant. The specific characteristics of a star will determine what type of life it will lead, how long it might live and even the type of death it will die. We will witness the amazing variety of stars and peer into their secret lives. Narrated by Sir Patrick Stewart of TV's *Star Trek: The Next Generation* and the *X-Men* films.

EDGE OF DARKNESS

February 5

Wednesday 6:30 pm

Edge of Darkness features amazing scenes of places never before seen, gathered by key space missions that culminated with ground-breaking discoveries in 2015. It features a spectacular flight through the great cliffs on comet 67P, a close look at the fascinating bright "lights" on Ceres, and the first ever close ups of dwarf binary planet Pluto/Charon and its moons. Narrated by Hayley Atwell, Agent Carter, from the Marvel Cinematic Universe and the ABC television series.

EXPERIENCE THE AURORA**February 13****Thursday****6:30 pm**

Over seven months in the Arctic Circle, crews captured timelapse images of the Aurora Borealis with high resolution digital SLR cameras outfitted with fisheye lenses. The results are spectacular. For the first time, the aurora has been captured as it was meant to be experienced, as a display that covers the entire sky. This immersive show shares the science behind the aurora and tells the story of our quest to find and photograph the aurora for wraparound display in full-dome theaters. Winner of 2 Telly Awards.

EARTHQUAKE: A RESTLESS EARTH**February 20****Thursday****6:30 pm**

This show combines geology, plate tectonics, and Earth history into a sweeping geological journey exploring the forces that transform the surface of our planet. Fly along the San Andreas Fault before diving into the planet's interior. Journey back in time to witness the 1906 San Francisco earthquake, and the break-up of Pangaea 200 million years ago, as well as the sites of historical earthquakes from the Mediterranean Sea to the Pacific Ocean. Data-driven visualizations illustrate Earth's story, revealing how subtle motions and sudden ruptures have shaped our planet over eons, and how geological activity influences the course of human history. Learn how scientists and engineers collaborate to help society create a safer environment — and a safer future.

SUNSTRUCK &**COSMIC ADVENTURE****February 27****Thursday****6:30 pm**

In *Sunstruck*, discover the wonders of our sun. Its incredible energy has supported life on earth for millennia, but is now threatening our technology and way of life. Travel to the distant future to discover our sun's connection to the universe's cosmic cycle of life and death.

In *Cosmic Adventure*, go on an all-ages roller coaster ride from the moon through the universe, our galaxy and our solar system. This high speed adventure will immerse you in some of the most amazing sites in the universe. It will be a ride you will want to take again and again.

LASER BEATLES & LASER POP**February 28****Friday****6:30 pm**

See the laser show page at the end of this document for a playlist.

LASER VINYL**February 28****Friday****8:00 pm**

See the laser show page at the end of this document for a playlist.

LASER ZEPPELIN**February 29****Saturday****6:30 pm**

See the laser show page at the end of this document for a playlist.

LASE ROCK**February 29****Saturday****8:00 pm**

See the laser show page at the end of this document for a playlist.

**CELL! CELL! CELL! &
MOLECULARIUM****March 5****Thursday****6:30 pm**

This is the story of the trillions of cells that form our bodies, from our beginnings as a single cell to the complexity of a whole body: it's the story of who we are. Audience members will join characters Raj and Sooki to dive into the busy world of cells, watching 'alien trees' and wriggling 'slugs' fly past on a giant 360° full-dome screen.

The Molecularium™ is a cartoon animated show for younger audiences that makes learning molecular science fun. The creators have integrated advanced scientific simulations into an immersive cartoon with kid-friendly characters to introduce young people to the world of atoms and molecules. The Molecularium

FORCES OF NATURE

March 25

Wednesday 6:30 pm

Come close to nature's most powerful and extreme forces. Cameras capture massive volcanoes, earthquakes, and storms as a team of scientists travel the world in an attempt to figure out what causes these dangerous, yet undeniably thrilling natural occurrences. Putting their lives on the line in the name of scientific discovery, the experts forge their way into erupting pits, through volcanic flows, along fault lines, and straight towards tornados' eyes. Narrated by Kevin Bacon.

ORIGINS OF LIFE & OASIS IN SPACE

April 2

Thursday 6:30 pm

Origins of Life deals with some of the most profound questions of life science: the origins of life and the human search for life beyond Earth. Starting with the Big Bang, in chronological order, the show deals with the prebiotic chemistry in the Universe, the formation of stars, formation of solar systems, and the first life on Earth. Furthermore, *Origins of Life* covers the great extinctions as well as our search for (primitive) life beyond planet Earth. *Origins of Life* is an inspirational journey through time and a celebration of life on Earth. In *Oasis*, we embark on a startling and beautiful voyage through our Universe, Galaxy and Solar System in search of water, which is the key ingredient for life on Earth. *Oasis in Space* offers a new perspective on a substance of obvious importance to our planet.

DAWN OF THE SPACE AGE

April 15

Wednesday 6:30 pm

Relive the excitement of the early days of space exploration, from the launch of the first artificial satellite Sputnik, to the magnificent lunar landings and privately operated space flights. Be immersed and overwhelmed with this accurate historic reconstruction of man's first steps into space on April 12th, 1961. Who were the men and women who took part in these death-defying days? Witness their drive, their passion, and their perseverance to explore in *Dawn of the Space Age*.

DYNAMIC EARTH

April 23

Thursday 6:30 pm

The award-winning *Dynamic Earth* explores the inner workings of Earth's great life support system: the global climate. With visualizations based on satellite monitoring data and advanced supercomputer simulations, this cutting-edge production follows a trail of energy that flows from the Sun into the interlocking systems that shape our climate: the atmosphere, oceans, and the biosphere. Audiences will ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into roiling volcanoes.

WONDERS OF THE UNIVERSE & POWERS OF 10

April 29

Wednesday 6:30 pm

Wonders of the Universe allows you to peer deep into space through the eyes of the orbiting Hubble Space Telescope and travel back billions of years in time to witness the birth of the universe. On this breathtaking excursion you'll witness the formation of galaxies and explore some of the most wondrous nebulae and astronomical structures yet discovered. As your travels continue, you'll fly deep into our own Milky Way galaxy and return home to Earth on a spectacular tour through the solar system. *Powers of 10* will give you a sense of the size of our Solar System, Galaxy and Universe.

INTO THE DEEP**May 7****Thursday 6:30 pm**

We know more about the surface of the Moon than we do about the wonders hidden beneath the waves of our planet's seas. The deepest parts of our oceans teem with life forms so bizarre they could be from the realm of science fiction. These fantastic creatures, all perfectly adapted to the extreme pressures and temperatures of their alien environment, inhabit a realm of underwater volcanoes, engulfed mountain ranges, and vast trenches cut into the crust of the planet. *Into the Deep* combines marine biology, oceanography, underwater geology, astronomy, and exploration. Audiences will experience the dive of Trieste to the Challenger Deep, the lowest point of the Mariana Trench in the South Pacific.

SPACEPARK 360**May 14****Thursday 6:30 pm**

SpacePark 360 is a 9-ride show that takes audiences on wild immersive rides through the Solar System while recreating the experience of amusement park thrill rides—roller coasters, pendulums, inverters and more. From the tops of Jupiter's clouds to the icy depths of Neptune's moon Triton, each location serves to heighten the thrilling experience.

SUMMER NIGHT SKY**May 19****Tuesday 6:30 pm**

The summer brings us warm nights perfect for relaxing under the stars! So come join us for a live presentation and overview of what you'll find in the summer night sky, including constellations, bright stars, colors of stars, the Milky Way, planet locations, meteor showers and more!

Laser music show playlists on the next page.

PHM DVT Laser Shows 2019-2020

Come and join us for a professional-quality laser music show, featuring intricate patterns and characters and a (water-vapor) haze machine. All tickets are \$5, and are available online at phmschools.org (Select "Community" and then "DVT & Planetarium") or at the door 30 minutes before show start time.

Remember, we also offer Halloween and December holiday laser shows.

LASER BEATLES & LASER POP

February 28 **Friday** **6:30 pm**
March 14 **Saturday** **8:00 pm**

All tickets are \$5 (and are valid for both Beatles and Pop), and the shows will last for a combined total of about 1 hour. Laser Beatles' playlist is as follows: Magical Mystery Tour, I Wanna Hold Your Hand, Twist & Shout, A Hard Day's Night, Nowhere Man, Help!, Yesterday, Octopus' Garden, Sgt. Pepper's Lonely Hearts Club Band / A Day in the Life. Laser Pop's playlist is as follows: 'NSync - Pop, Pink - Get This Party Started, The Beatles Medley, Smash Mouth - I'm A Believer, Sting - Desert Rose, The Beach Boys Medley, The B52's - Cosmic Thing, 'NSync - Digital Get Down, 3 Doors Down - Kryptonite

LASER VINYL

February 28 **Friday** **8:00 pm**

AC/DC - Back in Black, Emerson, Lake & Palmer - Karn Evil 9, Van Halen - Jump, Queen - Bohemian Rhapsody, Kansas - Carry On My Wayward Son, Kiss - Rock-n-Roll All Night, Aerosmith - Dream On, Boston - Rock-n-Roll Band, Journey - Separate Ways, Pink Floyd - One Of These Days

LASER ZEPPELIN

February 29 **Saturday** **6:30 pm**

Song Remains the Same, Over the Hills and Far Away, Good Times, Bad Times, Immigrant Song, No Quarter, Black Dog, Livin', Lovin' Maid, Kashmir, Stairway to Heaven, Whole Lotta Love, Rock -n- Roll

LASE ROCK

February 29 **Saturday** **8:00 pm**

Ozzy Osbourne - Crazy Train, Foreigner - Juke Box Hero, Led Zeppelin - Ramble On, David Bowie - Suffragette City, YES - Long Distance Around, ZZ Top - LaGrange, Emerson Lake & Palmer - From The Beginning, Genesis - Tonight, Rush - YYZ, Motörhead - Ace of Spades

LASER GENESIS

March 6 **Friday** **6:30 pm**

Turn It On Again, Invisible Touch, Sledgehammer, Tonight Tonight Tonight, Land of Confusion, Mama, Sussudio, Follow You Follow Me, In The Air Tonight, Abacab

LASER U2

March 6 **Friday** **8:00 pm**

Where the Streets Have No Name, I Will Follow, Beautiful Day, Sunday Bloody Sunday, October, The Fly, Mysterious Ways, Pride, Zoo Station, With or Without You, Desire, New Year's Day

LASER HYPNOTICA

March 7 **Saturday** **6:30 pm**

The Crystal Method - Trip Like I Do, Fat Boy Slim - Love Island, Faithless - Insomnia, Prodigy - Narayan, Björk - Joga, Delerium - Silence, The Chemical Brothers - Music: Response, Fat Boy Slim - Acid 8000, The Crystal Method - Comin' Back, The Chemical Brothers - Setting Sun

LASER RUSH 2112

March 7 **Saturday** **8:00 pm**

"2112": Overture, The Temples of Syrinx, Discovery, Presentation, Oracle: The Dream, Soliloquy, Grand Finale; A Passage to Bangkok; The Twilight Zone; Lessons; Tears; Something for Nothing

LASER QUEEN (NEW SHOW)

March 13 **Friday** **6:30 pm**

We Will Rock You/We Are The Champions, Bicycle Race, Don't Stop Me Now, Another One Bites The Dust, I Want To Break Free, Under Pressure, Killer Queen, Bohemian Rhapsody, Radio Gaga, Princes Of The Universe, The Show Must Go On

LASER METALLICA

March 13 **Friday** **8:00 pm**

For Whom the Bell Tolls, Ain't My B***h, Fuel, One, Nothing Else Matters, Master of Puppets, Unforgiven II, Sad But True, Enter Sandman

LASER TRIBUTE

March 14 **Saturday** **6:30 pm**

Michael Jackson - Beat It, Jimi Hendrix - Purple Haze, Ronnie James Dio - Neon Knights, Elvis Presley - Jailhouse Rock, Johnny Cash - Ring of Fire, Freddy Mercury - Bohemian Rhapsody, John Lennon - Imagine, David Bowie - Space Oddity, Whitney Houston - I Wanna Dance, Jim Morrison - Break On Through, Prince - Let's Go Crazy

LASER BEATLES & LASER POP

March 14 **Saturday** **8:00 pm**

See the February 28th date for playlist.

LASER PINK FLOYD "DARK SIDE..."

March 20 **Friday** **6:30 pm**

Speak to Me, Breathe, On the Run, Time, The Great Gig in the Sky, Money, Us and Them, Any Colour You Like, Brain Damage, Eclipse

LASER PINK FLOYD "THE WALL"

March 20 **Friday** **8:00 pm**

In the Flesh, The Thin Ice, Another Brick in the Wall (Part I), The Happiest Days of our Lives, Another Brick in the Wall (part II), Mother, Goodbye Blue Sky, Empty Spaces, Young Lust, Another Brick in the Wall (Part III), Hey You, Comfortably Numb, Stop, The Trial, Run Like Hell