

FFB

IPS FULLDOME FESTIVAL BRNO 2016

FULL CATALOGUE



THE ACCIDENTAL ASTRONAUTS

32:00

Robo-kids Cy, Annie and their dog Armstrong get a lot more than they expected from their class field trip in an impromptu adventure. Travel along exploring the Sun, Earth and Moon, with a witty starship computer as navigator and guide. Race along on the surface of the Moon! Collect an asteroid sample in low gravity! Survive a solar storm! Find new appreciation for the unique beauty of Earth. Journey along with the Accidental Astronauts in this epic dome theater adventure.

Production Company: Clark Planetarium



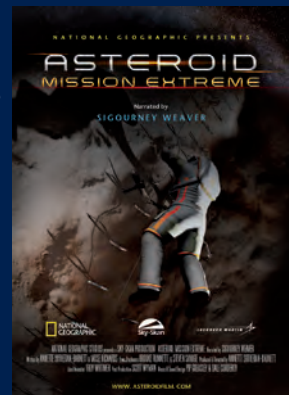
www.clarkplanetarium.com/distribution/fulldome_aa.php

ASTEROID: MISSION EXTREME

25:00

Asteroid: Mission Extreme takes audiences 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. Available in fulldome 8K, 4K, 2D, 3D stereo, 30/60fps.

Production Company: Sky-Skan and National Geographic



www.asteroidfilm.com

AURORA: LIGHTS OF WONDER

29:00

You can experience the actual aurora with the world's first 4K x 4K real-time VR. Astro-photographer Mr. O-Cheol KWON took these eye catching footages during the Aurora Substorm 2015 which was a unique experience even for the photographer who spent several years for this phenomena. These are not the usual time-lapse images but high-resolution video at 30 fps taken by special multi cameras with low light sensors. The audiences will experience sophisticated and still dynamic features of the real Aurora storm. Also, scientific explanations and beautiful artworks about the legend of the aurora are featured throughout the movie.

Production Company: HugMedia by Kwon O Chul

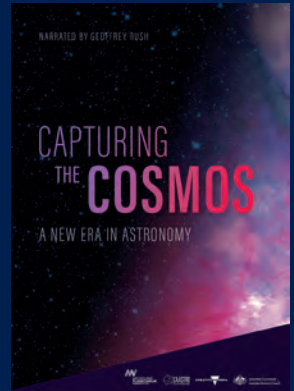


CAPTURING THE COSMOS

26:00

The show explores the new astronomy being carried about by the CAASTRO astronomers and scientists as they search the sky in ways never before possible. Led by Nobel Laureate, Professor Brian Schmidt, the SkyMapper telescope is helping to solve the mystery of Dark Energy. In Western Australia a new radio telescope, The Murchison Widefield Array, is investigating the moment when the first stars and galaxies lit up the universe.

Production Company: Melbourne Planetarium

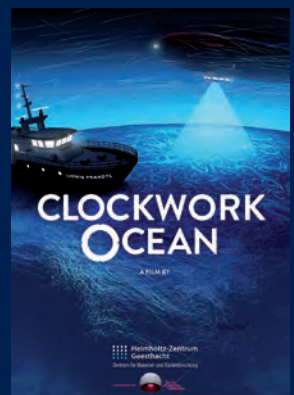


CLOCKWORK OCEAN

10:00

The investigation of small eddies in the ocean is currently one of the leading oceanographic topics. Eddy hunters of the Helmholtz-Zentrum Geesthacht, Germany, deploy zeppelin, fast vessels, and autonomous underwater vehicles to detect these barely known features. The exciting search for the eddies and their relevance for the global ocean and the world's climate is described in the fascinating full-dome production »Clockwork Ocean«. The fully animated movie is taking the observer from the deep ocean to space and back to the sea surface featuring the bioluminescence of sea creatures, a view of the ocean currents, and the unique scientific observations.

Production Company: Ralph Heinsohn Artworks & Helmholtz-Zentrum Geesthacht



www.uhrwerk-ocean.de/eintauchen.html

COSMIC FRONT – THE BIRTH OF THE FIRST STAR

25:00

As children, we looked for the first star to shine in the night sky. But what about the first star ever to shine in the universe? There were no stars after the Big Bang. Only darkness everywhere. Then a celestial body brought light to the universe. This was the First Star. Scientists are now trying to uncover the First Star, which led to the birth of galaxies, planets, and Earth. Please join us as we unravel the mystery of the First Star.

Production Company: Koichi Ishito (NHK Educational), Yuko Uchiyama (D&D)



www.nhk-ed.co.jp/case/cosmo/20151002

COSMIC FRONT - TIME TRAVEL

25:00

"Time" and "Space" are essential concepts in life. People had always believed that time and space were absolute. But what if they were not? What if time and space could be twisted, warped and stretched? Close to century ago, Einstein's theory of relativity showed just that and shocked the world. We have since been introduced to a fascinating world, where time and space are relative. There are researchers who think there are other dimensions to the universe. These dimensions are unknown to us only because they are hidden from us. If we are able to control time and space, we may be able to travel beyond them. In this program, we explore the world of relative time and space.

Production Company: Koichi Ishito (NHK Educational), Yuko Uchiyama (D&D)



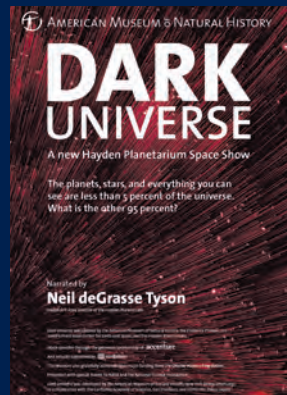
www.nhk-ed.co.jp/case/cosmo/20160212

DARK UNIVERSE

25:00

The American Museum of Natural History's latest space show celebrates a new age of cosmic discovery as well as its deepest mysteries. Dark Universe features spectacular scenes of recent spacecraft, such as the Galileo probe's breathtaking plunge into Jupiter's atmosphere, the most accurate visualizations ever produced, such as a Milky Way galaxy spangled with exploding supernovas, and novel renderings of hotly discussed phenomena, like dark matter. Narrated (English) by Neil deGrasse Tyson, directed by Carter Emmart, curated by Mordecai-Mark Mac Low. Dark Universe was developed by the American Museum of Natural History, New York (www.amnh.org), in collaboration with the California Academy of Sciences, San Francisco, and GOTO INC, Tokyo, Japan.

Production Company: American Museum of Natural History



www.amnh.org/global-business-development/planetarium-content/dark-universe

DEEP SKY

30:00

The starry sky is one of the most beautiful natural landscapes we can see from Earth. Thousands of stars dotting the sky above our heads provoke that feeling of infinity and at the same time smallness. The humans have felt this since we got up our eyes at the sky. But what lies beyond? If we were able to look farther and farther away and to study this black background of the night, what would we see? Over the past decades large telescopes and observatories in space have spied the black background of the night and have unearthed a fascinating, dynamic and complex universe ... Hundreds, thousands of astronomical objects that were hidden from our view have filled our eyes with an explosion of colors, shapes and unimaginable dimensions.

Production Company: Planetarium of Pamplona



www.escuela.pamplonatrio.org/306_deep.html

DESTINATION SOLAR SYSTEM

29:00

In Destination Solar System audiences tour the Solar System like never before through the state-of-the-art technology of the Grainger Sky Theater. The excitement and drama of our celestial neighborhood comes to life in stunning, vivid detail in this unforgettable experience. In this live show, it's the year 2096, and space tourism is available to everyone. "Space Express Tours," the first tour company in deep space, offers a variety of adventures including its most popular, Destination Solar System. This out-of-this-world tour, departing from the Grainger Sky Theater, takes place on board the fastest ship in the Space Express fleet and the only vehicle equipped with Space Jump™ technology. In Destination Solar System, passengers will travel hundreds of millions of miles in just seconds on an adventure-filled tour led by Jesse, an enthusiastic, knowledgeable—but inexperienced—tour guide, and Max, a highly advanced, fully integrated onboard computer. Tours of the hottest hot spots and the coldest, stormiest and most spectacular sights in the Solar System await curious space explorers of all ages.

Production Company: Adler Planetarium



www.destinationolarsystem.adlerplanetarium.org/

DIAGRAM OF OUR UNIVERSE (TEASER)

06:00

This is a fulldome film based on the poster "Diagram of Our Universe". The poster is a concise summary of the shape and history of our universe. Rather than just present the facts documentary-style, we decided to introduce a character and send him on a journey of discovery. Some of the concepts addressed by the poster - the extent of the visible universe for example - can be a little difficult to grasp. Our challenge was to present these concepts in an easy-to-understand and entertaining format.

Production Company: Starlight Studio



DINO PLANET

15:00

On Dino Planet, Professor Schwartz has been raising dinosaurs since they were eggs. Now he would like to show you his pre-historic pets. Join the professor for an exciting and educational journey in his trusty (or should that be rusty) Auto. Observe and learn about different types of dinosaurs as the tour winds through majestic tropical forests, an abandoned launch site and a frozen sled track. The professor is keen to share all he has learned about the creatures in his care. He might need to use his knowledge to evade some of the pets that seem a little too interested in him and his guests and return everyone home safely.

Production Company: FullDomeLab



www.fulldomelab.com/home/

DO WE DRINK WATER FROM COMETS?

40:00

Water is a basic condition for the emergence of life. This relatively simple compound, consisting of two hydrogen atoms and one oxygen atom, is found on Earth in gaseous, liquid and solid forms. Water accounts for most of Earth's surface. Water makes up most of our body by weight. However, one fundamental question is left unanswered: where did all that water come from? Perhaps, the answer is more complex than anyone might expect.



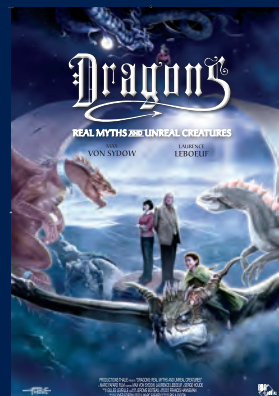
www.technia.cz

Production Company: 3D Planetarium Technia Science Center

DRAGONS

40:00

Dragons: Real Myths and Unreal Creatures traces the legend of dragons through time, and across cultures and continents, exploring their connections to history, geography, paleontology, literature, art, national identity, and more. Dragons explores humankind's fascination with these fantastic creatures over thousands of years. Available in 2D and 3D.



www.es.com/Shows/Dragons

Production Company: Big and Digital

EARTH SYMPHONY

27:00

An Earth, such a wonderful planet we are living at! Experience the phenomenon created by atmosphere surrounds an Earth in dome screen, such as aurora, meteor stream, snow, and cloud. Mr. KAGAYA, a digital graphic artist, demonstrates beautiful digital image that your heart will be cleansed, takes you to Story of the Sky. Please enjoy seasonal starry sky with dynamic music.



www.kagayastudio.com/english/planetarium/index.html

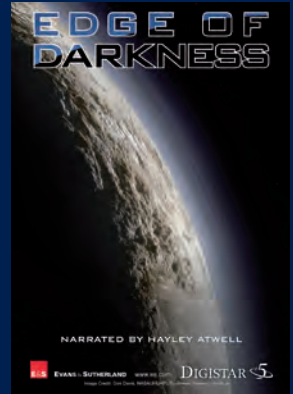
Production Company: KAGAYA Studio

EDGE OF DARKNESS

23:00

Edge of Darkness features amazing scenes of places never before seen. 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.

Production Company: Evans & Sutherland



www.es.com/Shows/EdgeOfDarkness

FEBRUAR

14:00

Originally a travelling dome-installation, but also available for Oculus Rift. FEBRUAR is a handdrawn 360° panorama: Immersed in a barren winterlandscape, surrounded by nature and only the outskirts of a modern housing area in sight, you can observe the movements of animals and humans. But not in their best nature...

Production Company: Valk Productions



www.facebook.com/fulldomefebruar?ref=hl

FERMENTATION

15:00

Beautiful and extraordinary art under the dome, produced with the help of choreographers and contemporary dancers. The phenomenon of fermentation is one in which tiny microorganisms, invisible to the naked eye, enable life to flower its hidden potential after death. This work abstracts this invisible phenomenon through dance, and expresses the creativity and energy that lies beyond death. If the living body of a dancer represents 'life', the body of the dancer seen on film embodies 'death'. The body of the dancer, appearing amid the darkness of the dome, evokes not only death but also what lies beyond: the birth of a new life.

Production Company: Masashige Iida



www.reef-distribution.com/product/fermentation/

FLOWER UNIVERSE

10:00

Makoto Azuma is the flower artist, who launched the experimental botanical lab Azuma Makoto Kaju Kenkyusho (AMKK). He has been focusing on his project arranging flowers in all kinds of mundane situations that don't occur in the realm of nature, and continues to pursue the beauty of plants from a unique point of view. This show lets us experience his world with powerful fulldome movie. Brightly colored flower planet is taken by high-resolution 4K camera, emerges in the outer space filled in the dome. It is an experimental show as if traveling back and forth between flowers and universe as well as micro and macro world.

Production Company: Daisuke Hiraga



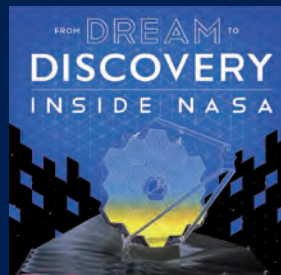
www.lifeoftrees.com

FROM DREAM TO DISCOVERY: INSIDE NASA

31:00

In From Dream to Discovery: Inside NASA, experience the excitement of today's space missions as you journey from NASA's test facilities all the way to Pluto. Immerse yourself in the adventure and extremes of spacecraft engineering—from the design of missions like the James Webb Space Telescope and New Horizons, to the rigors of testing, launch, and space operations. When humans dare to dream, we create truly amazing things.

Production Company: Charles Hayden Planetarium, Museum of Science, Boston



www.mos.org/fulldome/dream

FROM EARTH TO THE UNIVERSE

31:00

The night sky, both beautiful and mysterious, has been the subject of campfire stories, ancient myths and awe for as long as there have been people. A desire to comprehend the Universe may well be humanity's oldest shared intellectual experience. Yet only recently have we truly begun to grasp our place in the vast cosmos. To learn about this journey of celestial discovery, from the theories of the ancient Greek astronomers to today's grandest telescopes, we invite you to experience From Earth to the Universe.

Production Company: Theofanis Matsopoulos & European Southern Observatory (ESO)



www.supernova.eso.org/programme/planetarium-shows/fettu/

GALAXY KIDS: A STAR WITH MY NAME

20:00

Atla of the <GALAXY KIDS> wants to discover his own star but it seems like it will never happen. After learning that all of his Galaxy Kids friends have discovered their own stars, Atla, jealous, heads out into space to find his own.



Production Company: Tak Hoon KIM

GRAVITY REVEALED

25:00

It is one hundred years since the arrival of general relativity, but gravity is still widely misunderstood as the pull of the Earth, or as a mysterious attraction across distance. In "Gravity Revealed" we attempt to replace this mistaken belief with the correct version – gravity is the direct result of warped spacetime.



Production Company: Starlight Studio

www.starlightstudio.jp/?page_id=2899

HIDDEN UNIVERSE

40:00

An extraordinary journey deep into space, the documentary adventure Hidden Universe brings to life the farthest reaches of our universe with unprecedented clarity through real images captured by the world's most powerful telescopes—seen on-screen and in 3D for the first time. Stunning, high-resolution 3D images of space allow moviegoers to explore the earliest galaxies, watch stars being born in vivid clouds of gas and dust, tour the surface of Mars, and witness images of distant celestial structures including stunning views of the Sun. Seen for the first time in 3D, these dramatic new images offer fresh insight into the origins and evolution of the universe.



Production Company: MacGillivray Freeman Films

www.es.com/Shows/HiddenUniverse

HOW HAVE WE SOLVED THE SECRETS OF DISTANT STARS?

28:00

How are we able to know facts about stars we have never been to? At a science museum, three astronomers sneak out their portraits at night to debate and solve the mysteries that were submitted in the museum's question box.

Production Company: The Saga Pref. Space and Science Museum
/ KONICA MINOLTA PLANETARIUM Co., LTD.

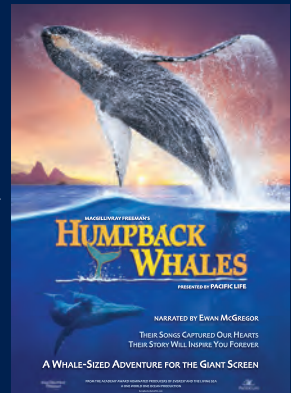


HUMPBACK WHALES

40:00

Narrated by two-time Golden Globe® nominee Ewan McGregor, Humpback Whales is an extraordinary journey into the mysterious world of one of nature's most awe-inspiring marine mammals. Set in the spectacular waters of Alaska, Hawaii and the remote islands of Tonga, this ocean adventure offers audiences an up-close look at how these whales communicate, sing, feed, play and take care of their young. Captured for the first time with IMAX® 3D cameras, and found in every ocean on earth, humpbacks were nearly driven to extinction 50 years ago, but today are making a slow but remarkable recovery. Join a team of researchers as they unlock the secrets of the humpback and find out why humpbacks are the most acrobatic of all whales, why they sing their haunting songs, and why these intelligent, 55-foot, 50-ton animals migrate up to 10,000 miles in a round-trip every year.

Production Company: MacGillivray Freeman Films



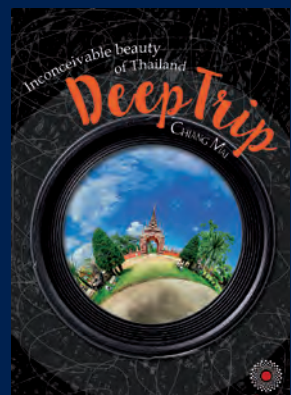
www.es.com/Shows/HumpbackWhales

CHIANG MAI DEEP TRIP

05:00

Experience the beauty and colour of northern Thailand in Chiang Mai Deep Trip. This short film uses a combination of time lapse photography, long exposure times, fisheye lenses and shots from a drone platform to provide a unique perspective on the former Lanna capital. Visit, the old city and its moat walls, rural temples and gardens under the night sky. Travel from mountain tops to underground caves on a kaleidoscopic journey to immerse your senses. Chiang Mai Deep Trip was selected for exhibition in the VR Village at SIGGRAPH2015, the annual conference of the Association of Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques.

Production Company: FullDomeLab



www.fulldomeab.com/home

INCOMING!

25:00

Asteroids and comets have collided with our planet throughout its history, changing the course of life on Earth and shaping the world we know today. *Incoming!*, the latest original planetarium show from the California Academy of Sciences, explores the past, present, and future of our solar system and the landmark discoveries scientists have made sending spacecraft to visit tiny worlds. Cutting-edge visualizations bring real-time data from current NASA missions to life while taking audiences on a ride through the dynamic story of our cosmic origins. Along the way, audiences will discover what these impacts from above can teach us – and how scientific advances may allow us to find and track cosmic threats before they reach planet Earth.

Production Company: California Academy of Sciences



www.calacademy.org/domeshows

THE INCREDIBLE SUN

12:00

Every second the Sun emits million times more energy than the world consumes every year. Where does such a huge amount of power come from? Discover our star through the breathtaking timelapses. Thanks to the real images taken by the Solar Dynamics Observatory and processed by advanced mathematical methods, you will experience the true nature of the Sun and find out that it is far from being as calm as it seems at first glance.

Production Company: Brno Observatory and Planetarium



www.brnoplanetarium.com

JOURNEY TO SPACE

40:00

NASA's next era will be its greatest yet. That is the clear "roadmap" painted by Journey To Space. The film absolutely annihilates the perception that the space program died with the end of the Space Shuttle Program by showcasing the exciting plans NASA and the space community are working on, and the challenges they must overcome to carry out audacious missions such as landing astronauts on Mars and capturing asteroids. Journey To Space puts into historical context the magnificent contributions made by the Space Shuttle program and its intrepid space pioneers. It uses the most spectacular space footage – including unique views of Earth and operations in space – such as deploying and repairing the Hubble Space Telescope. It then goes on to show how the Shuttle launched and assembled the International Space Station (ISS). Together, these programs have taught us how to live, build and conduct science in space. The ISS will continue operating in space until 2024, and the film shows how it is building a foundation.

Production Company: K2 Communications/Giant Screen Films



www.es.com/Shows/JourneyToSpace

JOURNEY TO THE CENTRE OF THE MILKY WAY

07:00

What lies at the heart of our galaxy? For twenty years, ESO's Very Large Telescope and the Keck telescopes have observed the centre of the Galaxy, looking at the motion of more than a hundred stars and identifying the position of an otherwise invisible object — the supermassive black hole at the centre of our galaxy. Embark on a Journey to the Centre of the Milky Way and during seven minutes travel faster than light, from the driest place on Earth, the Atacama Desert in Chile right to the centre of our own galaxy, where a black hole is consuming anything that strays into its path. 84 million stars will appear in front of your eyes, each hiding mysteries waiting to be solved. Are there planets around them, perhaps with moons? Do they have water? Could they harbour life?

Production Company: ESO



www.eso.org/public/videos/eso-jcmw/

JULES VERNE VOYAGES

48:00

The phantastic adventures of Jules Verne have fascinated generations ever since. So it was time to bring his world of inventions and science fiction to the dome! Based on the novels "The Journey to the Moon" and "Journey around the Moon" three independent fulldome artists, Ralph Heinsohn, Rocco Helmchen and Tobias Wiethoff joined forces and created a 48 minutes artistic music show. By combining three musical episode movies the ideas and visions of Jules Verne come to life.

Production Company: Ralph Heinsohn & Rocco Helmchen & Tobias Wiethoff



KAGAYA'S AURORA

26:00

Curtain waves, light swirls, and then breaks up. Different aurora captured by time-lapse is recreated in dome. Using Computer Graphics, explain mechanism of how aurora is generated. Glacier shot from high level, image of arctic and row of mountains. This is a production that lets you fully enjoy the attractiveness of aurora along with the nature of Ireland and Alaska.

Production Company: KAGAYA Studio



www.kagayastudio.com/english/planetarium/index.html

LIFE FORCE – SECRET LIFE IN THE RED NAMIB

30:00

This is a show program about the Namib Desert captured by a 4K high resolution camera. The Namib Deserts of southwestern Africa is totally different world, awaiting you as if you land on an alien planet. An endless ocean of red sand, a countless number of mystery circles drilled on land and a thick layer of dense fog – but what most signifies is rare and mysterious animals. Chameleon dashing 5kms per hour, an elephant kin evolving to look like a mole, a mysterious creature with a pig's nose, rabbit's ears and kangaroo's tail... Why on such a dry land are these creatures able to survive and sometimes thrive as dominant specie on the desert? This time, we mounted a vibration-isolated 4K camera on a helicopter to capture some of the unanswered questions of the 'Fairy Circles' for the first time in the world. In addition, 4K camera was able to clarify the whole picture of the fog/ mist. From land to the sky, a mysterious world is captured in high resolution with 4K camera.

Production Company: NHK and NHNZ and CCTV9



www.calacademy.org/domeshows

LIFE UNDER THE ARTIC SKY

41:00

"Life under the Arctic Sky" is a film about the Northern lights and the Sami people (the indigenous people of the Arctic). Highlights of the film are the Northern Lights, the Reindeer Migration and dogsledding trips. A total of 10 film trips and 105 days were made to the Arctic to capture the Northern Lights, the Sami's and their reindeer and the beautiful Arctic scenery.

Production Company: Winner Audio & Video Corp, Behind the Scenes Media, Mirage3D



www.mirage3d.nl

LICHTMOND – DAYS OF ETERNITY

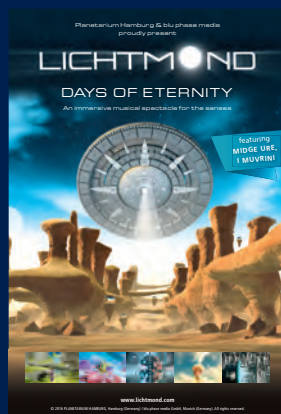
20:00

With LICHTMOND "Days of Eternity" gold and platinum winning sound architects Giorgio and Martin Koppehele continue their artistic journey by setting another audiovisual milestone. Perfect sound and a fabulous, song-based story merge in a fulldome experience that takes the viewer on a fantastic journey to the pristine world of the planet "Chronos" - the universal giver of time - where time goes by, time disappears and time is born.

Music Show feat. Special Guest Midge Ure.

Short Version of LICHTMOND „Days of Eternity“

WORLD PREMIERE in Brno Wednesday, June 15th 4 pm



Production Company: Planetarium Hamburg / blu phase media GmbH

THE MAN FROM THE 9 DIMENSIONS

30:00

Physics is in crisis; our understandings of the microscopic world of elementary particles and of the macroscopic world of the universe are contradicting. Scientists are striving to resolve the contradiction and construct the Theory of Everything. Be ready to be surprised by the new world of vibrating strings and hidden dimensions predicted by the most promising hypothesis, the Superstring Theory.

Production Company: National Museum of Emerging Science and Innovation (Miraiikan)



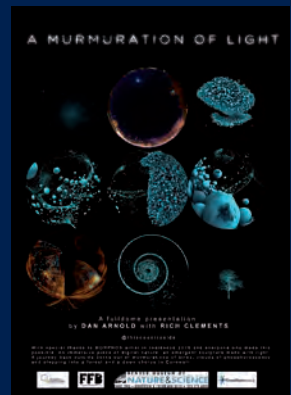
www.miraiikan.jst.go.jp/sp/9dimensions/en/

A MURMURATION OF LIGHT

07:00

A Murmuration of Light is an immersive piece of digital nature, a sculpture made with light. The piece draws influences from flocking birds, shoaling fish, phosphorescence and the ever changing forms that are part of the interconnected mesh that we are all part of. The sound is taken directly from a dawn chorus we recorded in Cornwall, sections multi-layered as the narrative develops and the murmuration break out of the urban framework and move through infinite 3D space.

Production Company: thiscountryside. First cut produced at MORPHOS residency, Denver, CO, USA



www.vimeo.com/159782423

NASA'S JOURNEY TO MARS

11:00

Prepare your students for STEM-related career opportunities in the future. Interest them in pushing the boundaries of technology and innovation. NASA's fleet of Mars robotic explorers are paving the way for human exploration of the Solar System in the coming decades. Have your students join NASA in preparing for a monumental journey of a lifetime – to Mars!

Production Company: NASA



www.es.com/Shows/JourneyToMars

ORIGINS

47:00

Origins unifies the history of the Cosmos and life on Earth in one single philosophical journey through different landscapes of our world, including the human mind. The show starts with an overture that represents the casual origin of life. After this short introduction, we will discover the nature of space and time with the help of one mysterious character that will appear in some decisive moments. We will watch and listen to the colours and sound of the world before we enter the final part of Origins: The Awakening.

Production Company: Borkel-Art Pro



www.originsfulldome.com

ORION: EXPLORATION FLIGHT TEST 1

03:00

Shot specifically for full dome presentation, this is the successful first deep-space flight of NASA's Orion on Exploration Flight Test-1, a test that took the uncrewed spacecraft 3,600 miles into space and safely returned it to Earth. Dec. 5th 2014. The Orion EFT-1 is one of the most powerful full dome rocket launches ever recorded. Produced by Lockheed Martin, the United Launch Alliance with dome-production consultation from Fiske Planetarium: University of Colorado. This film is free for all educational use.

Production Company: Leif Hiemfold / Thor Metzinger

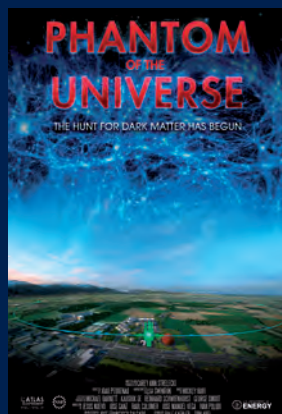


PHANTOM OF THE UNIVERSE

25:00

Phantom of the Universe: The Hunt for Dark Matter will explore the pursuit of the most elusive substance in the universe: dark matter. We'll marvel at its impact on everything from the largescale structure of the universe to the choreography of galaxies, to the nucleus of an atom. We'll race alongside speeding protons in the LHC at CERN as they collide in visually stunning explosions of light and sound. Scientists all over the world will eye the afterglow in hopes of discovering the mysterious dark matter particle. The show will be offered to planetariums worldwide free of charge.

Production Company: Carey Ann Strelecki



PLANET 9

25:00

The past decade has seen an explosion in the discoveries of Pluto-sized and near Pluto-sized bodies in the outer Solar System, giving rise to a new classification of "dwarf planets." Like Pluto, each of these largest dwarf planets has a unique story to tell about the history and evolution of the Solar System. Produced by the Adler Planetarium and the Kavli Foundation, Dr. Brown (Pluto Killer) leads a journey through the discoveries using cutting edge science visualizations of these objects and the new views of giant collisions, stellar encounters, and planetary rearrangement that we are gaining from their study. He will also show intriguing new evidence that there is an even larger object lurking far beyond these dwarf planets. This object, if we can find it, will finally silence the lingering questions about Pluto and planethood, for this object, if we can find it, will be the new rightful 9th planet.

Production Company: Adler Planetarium



www.adlerplanetarium.org

POLARIS

29:00

James, a traveling penguin from the South Pole, and Vladimir, a funny bear from the North Pole, meet on the Arctic sea ice. They become friends, talk about their respective regions and observe the stars together, wondering why the night is so long at the poles of the Earth. Novice astronomers, they are trying to solve this mystery by reasoning and observation. Thanks to the rigor of James and the inventive genius of Vladimir, their scientific adventure leads them to build an observatory and then an improvised spaceship. During a trip around the Earth, extended to Mars and Saturn, they get their answer and discover that the planets have similarities but also differences. Polaris is a playful story combining pedagogy and astonishing graphic effects. Addressing astronomical concepts such as the tilt of the Earth's axis, planetary types and ice in the solar system, the show also introduces key elements of the scientific method.

Production Company: Planétarium de Saint-Etienne Production



www.planetarium-st-etienne.fr/pro

REMAINS OF THE DINOSAURS

26:00

A science entertainment program introducing dinosaurs in the most realistic way using the latest scientific approach. Beautiful and mysterious fossils, and specimens are drawn by computer graphics, and dinosaurs which recreated accurately from skeletal specimens will be appeared on the dome screen.

Production Company: TOPPAN PRINTING Co., LTD. / KONICA MINOLTA PLANETARIUM Co., LTD.



www.es.com/Shows/JourneyToMars

ROSETTA

23:00

FullDome Film Society together with Kiev Planetarium and Atmosfera360 Center are proud to present the unique fulldome show dedicated to a breakthrough discovery and space mission to the core of the comet 67P. Join the comet discoverer Klim Churyumov in the story about the origins of the Solar System and life on Earth. Meet the challenges of a 10 year long mission with "Rosetta" spacecraft and the "Philae" lander. Become the first one to find oneself on the comet surface! Rosetta" fulldome show is distributed worldwide under a free license!

Production Company: FullDome Film Society, Fisheye Vision, FullDome.lab

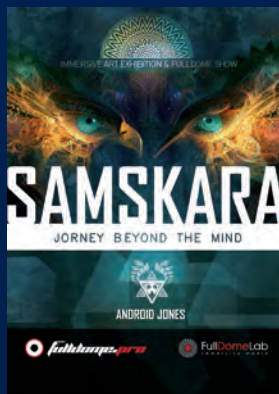


SAMSKARA

16:00

he acclaimed digital artist Android Jones, in partnership with FullDomeLab, presents Samskara - a stunning visual journey into the mind. Jones' two dimensional art has been given depth, and combined with sacred geometry, to create a kaliedoscope of imagery never seen before. The soundtrack is composed by Jones' frequent collaborator - Tipper. "This is like being inside one of my paintings", says Android Jones. "you're not looking through the window at a painting, it's like you become a part of it, you're the main character in it as it is happening all around you."Already a hit at FullDome and inspirational festivals in the US, Samskara is now available to all fulldome theaters worldwide.

Production Company: FullDomeLab



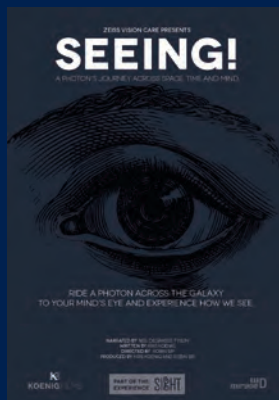
www.fulldomelab.com/home

SEEING! A PHOTON'S JOURNEY ACROSS SPACE, TIME AND THE MIND!

22:00

SEEING is a 22-minute full-immersion planetarium program that teach how human vision works. Imagery from all over the world including humanity, landscapes, skylscapes, and space will be the backdrop for photo-realistic animations, which will be used to tell the story of a photons' journey across the galaxy to a young woman's eye then mind. Discover how the data contained in the photon is converted into an electro-chemical impulse that then travels the neuro pathways of the brain and creates the image the brain sees. The program is sponsored by Koenig Films and Carl Zeiss, and will be available to planetariums free via download.

Production Company: Koenig Films / Mirage3D

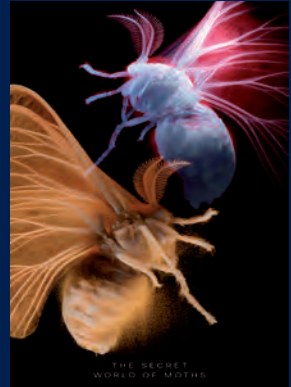


www.facebook.com/eyedocumentary

THE SECRET WORLD OF MOTHS

24:00

The Secret World of Moths is a magical journey to the world of moths. Using 3D X-ray tomography we shed light to their hidden macrocosm and explore their way of life in an unprecedented way. Geographically the film spans from the Arctic Circle to the Equator. Observing these two extreme environments helps us learn about and understand the diversity and complexity of their macroscopic world and our fragile existence on planet Earth.



Production Company: Hannes Vartiainen & Pekka Veikkolainen, Nordic Fulldome Production

THE SECRETS OF GRAVITY

28:00

The young magician's apprentice LIMBRADUR is far more interested in the universe and its secrets than boring magic spells. He is fascinated by the stars, the universe and the laws of nature. So, one night he sneaks into the Albert Einstein Museum, where he meets ALBYX3, a small, clever but rather quirky robot who knows all about Albert Einstein and his theories. ALBY takes LIMBRADUR on a magical journey of discovery through time and space, during which they not only uncover the secrets of gravity but also learn much about friendship and imagination, for LIMBRADUR and ALBY both have secrets of their own.

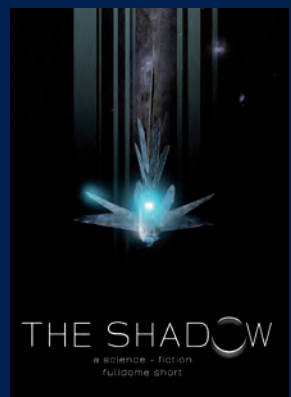


Production Company: SOFTMACHINE Immersive Production GmbH

THE SHADOW

3:00

A space station is destroyed by an unknown entity. A lone survivor is trying to reach an asylum on a mysterious planet... Fulldome short produced by one-man team in unusual software - Unreal Engine 4 - game engine.



Production Company: Joanna Saleta

SOLAR SUPERSTORMS

25:00

Solar Superstorms takes viewers into the tangle of magnetic fields and superhot plasma that vent the Sun's rage in dramatic flares, violent solar tornadoes, and the largest eruptions in the solar system: Coronal Mass Ejections. Focusing on the Sun's effects on Earth's atmospheric, communications, and power systems, the show features one of the most intensive efforts ever made to visualize the inner workings of the Sun, including a series of groundbreaking scientific visualizations computed on the Blue Waters supercomputer, based at the National Center for Supercomputing Applications (NCSA), U. of Illinois.

Production Company: A co-production of Spitz Creative Media, NCSA's Advanced Visualization Lab, and Thomas Lucas Productions, in association with Fiske Planetarium at the University of Colorado (Boulder)



www.solarsuperstorms.spitzcreativemedia.com/

SPACE NEXT

40:00

The journey to reach the stars began with our earliest dreams of flying, and led to landing on the moon and sending a probe to Pluto. But that's only the beginning. Space Next offers a glimpse into tomorrow, and the possibilities of what is to come by way of private space developments and national space programs. The result is an exhilarating vision of our future, based on real science, sure to inspire a generation of explorers, scientists, and dreamers.

Production Company: Big and Digital

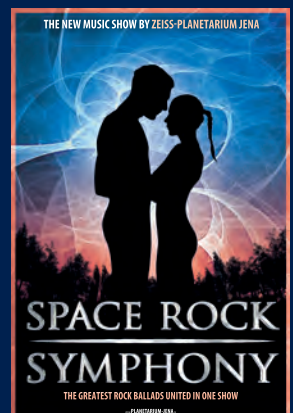


SPACE ROCK SYMPHONY

50:00

Experience a modern Rock-Fairytale where E-Guitars, symphonic orchestras and cosmic images combine into an exciting Show. Get hypnotized by the greatest symphonic Rock-Hits of the last decades. To the driving sound of Metallica, The Rolling Stones, Aerosmith, Guns n' Roses, Linkin Park and many other Legends of Rock we let ourselves be carried away to the only place that is even more infinite than the universe: our own imagination.

Production Company: Zeiss-Planetarium Jena (Robert Sawallisch)



www.planetarium-jena.de/
Space-Rock-Symphony-160.0.html

SPACE SCHOOL

25:00

From a habitat hidden deep underwater in Florida, to the world's most amazing swimming pool, dive into the underwater world of outer space! Space School is the incredible story of how astronauts train underwater to live and work in space. From microgravity simulation at NASA's Neutral Buoyancy Lab, to living under the sea at Aquarius Reef Base, astronauts spend a lot of time training underwater. Space School is a fascinating and beautifully filmed live-action dome film produced by the Emmy award-winning team that produces Jonathan Bird's Blue World.

Production Company: Jonathan Bird



STARLIGHT (NORTHERN HEMISPHERE VERSION)

25:00

For thousands of years we have looked to the stars at night in wonder and awe. Their mysteries have inspired curiosity across all cultures and civilisations. Starlight is told through the eyes of Margaret, as she steps back in time to relive childhood fears of the dark that awoke her curiosity about the night sky. Join Margaret as she takes you on a journey to discover constellations and ancient cultures, the birth and death of a star and the inner workings of our Sun.

Production Company: Melbourne Planetarium

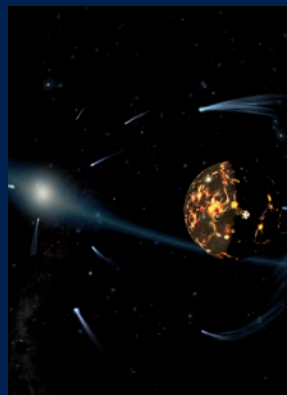


TIME TRAVEL – FROM THE BIG BANG TO MANKIND

50:00

Imagine to compress the 14 billion year lifetime of the universe into one year - with the Big Bang in the first second of January and the present time in the last second of December. Using this scale, the planetarium turns into a time machine: Experience how our milky way formed, sun and earth emerged and how life came into being. Massive stellar explosions and catastrophic impacts on Earth are a part of this story, as are the dinosaurs and other creatures. Join us on a unique Time Travell!

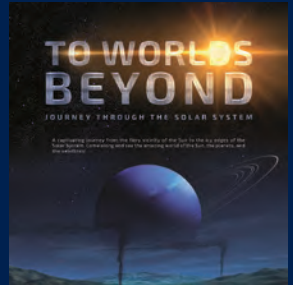
Production Company: Björn Voss, LWL-Planetarium Münster / Manfred Hünérbein, Freundeskreis Planetarium Bochum e.V.



TO WORLDS BEYOND

27:00

A captivating journey from the fiery vicinity of the Sun to the icy edges of the Solar System. Come along and see the amazing world of the Sun, the planets and the satellites!



www.planetarium.dn.ua

Production Company: Donetsk Planetarium Studio

TOCHTLI, THE LUNAR RABBIT ADVENTURE

27:00

The fulldome show "Tochtli, the Lunar Rabbit Adventure", narrates the story of Tochtli, the moon rabbit seeking an answer ¿why we observe the stars ?. When Tochtli reaches Earth, he begins a tour of the most important centers of astronomical research as the Large Millimeter Telescope, the Gamma Ray Observatory HAWC, and some optical telescopes and historical sites on Mexico. On this tour talks with the leaders of these projects and learns how we study and understand the Cosmos today. This production was made possible thanks to support National Council for Science and Technology of Mexico CONACYT, is an effort to support formal education in the areas of astronomy in basic education with 12 additional contents of 3 minutes, also has additional educational activities for students and guides for teachers in an effort to make the visit to the planetarium, a support to the topics of astronomy seen in classroom.



www.planetariumtorreon.com/tochtli

Production Company: Planetarium Torreón

TOMORROW TOWN 2

11:00

We're taken on a journey of inspiration, through Spiral town its green heart, moving through towers in an era of transportation systems that give us time to interact with the world around us; a cleaner, safer more beautiful world. 'Tomorrow Town', brought to you by Schindler Ltd and produced by NSC Creative encourages us to look beyond what is and dream about what can be. Through creative and sympathetic design we can create a world for future generations that we can all be truly proud of.



Production Company: NSC Creative

UFOS AND THE ALIENS

23:00

Are we alone? Human beings have kept looking for the answer of this question. We believe in the existence of other intelligent life in the universe, and we always mistake normal business of the Earth atmosphere as aerospace vehicles of the "aliens". Then where do the "aliens" possibly live? According to the estimation of scientists, how many planets in the universe are given the opportunity to hold life? Why hadn't those aliens made contact with us? And how can we find evidence of their existence? In the deepest sense, the search for extraterrestrial intelligence is a search for ourselves and our future.

Production Company: Beijing Planetarium



UMA AVENTURA NO PLANETÁRIO

30:00

After the planetarian leaves the room, the mouse and the monitor of the operating system take control of the planetarium and take us in an adventure through the solar system.

Production Company: Rio de Janeiro Planetarium



WE ARE STARS

26:00

We Are Stars. This 360° cross-platform experience will seek to answer some of the biggest questions of all time. What are we made of? Where did it all come from? The film explores the secrets of our cosmic chemistry, our explosive origins and connects life on Earth to the evolution of the Universe.

Production Company: NSC Creative



YAKOR, THE MEMORY OF WORLDS

30:00

Under the dome of Yakor, hanging in the middle of deserted mountains of an imaginary country, Akhram, an old man in the prime of life, is tirelessly working to collect mysterious archives. Akhram, mid watchmaker, mid scientist, has conceived an extraordinary machine: a cosmographer which shows 3D representations of the world imagined by people of the Earth. One stormy night, Akhram collected a young lost bird on the terrace of Yakor. Between Tit and Akhram, a complicity moved quickly...



www.le-plus.fr

Production Company: Palais de l'Univers et des Sciences (PLUS)

HORIZON (TEASER)

02:00

We have been trying to know the unknown world since the moment we were born on earth. The feeling of "Why" eventually create science which led to open up the frontier of the universe. From the geocentric theory to the Copernican theory. And, from the steady state theory to the Big Bang theory. The challenge of exploring the edge of universe is about unlocking the origin of humankind. Through those kept looking up at stars, the show approaches the truth of human endeavor in space.



www.live-net.co.jp/live/news/news.htm

Production Company: LIVE Company Ltd.

HELLO EARTH (TEASER)

4:00

How was the speech born? Can we find everything we need on the Internet? Will we make ourselves understood by extraterrestrials or other civilizations? "Hello Earth" is the second fulldome animation of the Heavens of Copernicus Planetarium at Copernicus the Science Centre in Warsaw. It is a story about development of human communication over the centuries and how it has changed not only the world but also our personal lives.



Production Company: Heavens of Copernicus Planetarium, Copernicus Science Centre, Warsaw