Center for Aerospace Education Group Visit Information

Hokulani Imaginarium and Aerospace Lab
GROUP VISIT INFORMATION

How to Book a Group Visit

Please complete the “Group Visit Form” (available online at: Group Visit Form) and send to Krissie Kellogg at:

Email: krissiekellogg@yahoo.com
Phone: 808-235-7321
Fax: 808-247-5362
Mail: Krissie Kellogg
Windward Community College
45-720 Keaahala Road
Kaneohe, HI 96744

Krissie will contact you as soon as possible to confirm the details of your group visit.

General Information
There is a minimum of 30 people (including teachers and chaperones) required to book an Imaginarium show. The Imaginarium has a seating capacity of 66, plus four areas designated for wheel chairs.

Groups may combine an Imaginarium show with a visit to the Aerospace
Exploration Lab at no additional cost.

Please note that the Center for Aerospace Education requires the following ratios of adults to students:
- Grades K-3  1:8
- Grades 4-8  1:10
- Grades 9-12  1:15

Payment Information

The Center for Aerospace Education accepts cash, checks and credit cards as payment. Checks should be made out to “University of Hawaii”. Please notify Krissie Kellogg if you will be paying via credit card and she will provide Windward’s credit card payment procedure. You may submit payment to Krissie Kellogg in person on the day of the field trip or via mail at:

Krissie Kellogg  
Center for Aerospace Education  
Windward Community College  
45-720 Kea’ahala Road  
Kaneohe, HI 96744

Pricing

- K-12 Education (Includes DOE & private school groups):  
  $4/student  
  Free for teachers/chaperones

- Homeschool groups  
  $4/student  
  Free for teachers/chaperones (maximum 1 free chaperone per student)  
  Additional chaperones over maximum $4

- Post Secondary Education:  
  WCC sponsored: no charge  
  UH Campuses: $75/group  
  Non-UH Post-Secondary: $6/person, 30 person minimum

- Non-Profit Organizations:
$4/child (12-years-and-under)  
$6/adult  
Minimum charge of $150 may apply

• Other Organizations:  
  $4/child (12-years-and-under)  
  $6/adult  
  Minimum charge of $250

• Other Groups:  
  Price structure determined on a case-by-case basis. Please call 235-7350 or email laychak@hawaii.edu for more information.

**Lunch Information**  
You may bring bag lunches to WCC and store them in the Imaginarium. There is a grassy area and covered walkway outside the Imaginarium that students can use to eat lunch. We recommend scheduling additional time in your visit if you plan to eat lunch or a snack.

**Bus Information**  
The Imaginarium is located on the campus of Windard Community College in Kaneohe. The address is 45-720 Kea‘ahala Road, Kaneohe, HI 96744. Turn right at the college entrance, then left at the end of the road. There is a pull-out in front of the Imaginarium that buses can use to unload.

**Aerospace Exploration Lab**  
The Aerospace Exploration Lab contains a variety of hands-on activities and exhibits that promote student engagement in inquiry based learning of scientific concepts. Students are given the freedom to explore the lab at their own pace under the supervision of the AEL’s specialist. Concepts include forces, simple machines, magnetism, color, optics, sound, gravity and radar. The AEL is most appropriate for students in Kindergarten through Grade 6.

The AEL meets, at minimum, the Scientific Process strand benchmarks for students in K-6**th** grade. Other benchmarks are met based on student grade level and specific activities currently on exhibit in the AEL.
Imaginarium Show Descriptions
Grade level suggestions are based on the scientific content of the show. Please contact either Krissie Kellogg or Mary Beth Laychak (laychak@hawaii.edu, 235-7350) for any questions regarding show selection or educational standards. Imaginarium shows also include a live sky segment where students will explore the motion of the sky, constellations, planets, etc…

Astronaut

Come celebrate the 50th anniversary of manned spaceflight and find out what it takes to become an astronaut. Explore the amazing worlds of inner and outer space, as you experience a rocket launch from an astronaut's point of view and float around the International Space Station. Discover the perils that lurk in space as we subject 'Chad,' our test astronaut, to everything that space has to throw at him. Astronaut is an experience like nothing on Earth. Produced by the National Space Centre, Astronaut is narrated by Ewan McGregor. The show is intended for students in grades 4 and up.

Runtime: 24 minutes

Standards Correlation: HE.3-5.1.9, SC.4.7.1, CTE.5.1.1, SC.5.4.1, SC.5.8.3, HE.6-8.1.8, SC.6.2.1, SC.6.2.2, SC.7.1.3, SC.8.2.1, SC.8.7.1, SC.ES.2.1, SC.ES.2.2, SC.ES.2.3, SC.ES.2.4, SC.PS.2.1, SC.PS.2.2, SC.PS.7.3, SC.CH.2.1, SC.CH.2.2, SC.PH.2.1, SC.PH.2.2, SC.BS.2.1, SC.BS.2.2, SC.BS.4.2, SC.BS.4.4, SC.HP.2.1, SC.HP.2.2, SC.HP.3.3, SC.HP.4.9, SC.HP.5.2

Cowboy Astronomer

Cowboy Astronomer is a skillfully woven tapestry of star tales and Native American legends, combined with constellation identification, star-hopping and astronomy tidbits—all told from the unique viewpoint of a cowboy astronomer who has travelled the world plying his trade and learning the sky along the way.

Narrated by cowboy poet Baxter Black, the audience is transported to the Western outdoors, listening to star legends and cowboy tales around the campfire. Our cowboy astronomer gives us his perspective of the night sky and the things he's discovered over a lifetime of stargazing.

Runtime: 37 minutes
Standards Correlation: CTE.4.2.1, SC.4.8.3, LA.4.2.4, SC.5.6.3, SC.5.8.2, SC.5.8.4, LA.6.6.4, SC.6.6.4, SC.7.1.3, SC.8.6.1, SC.8.8.8, SC.8.8.11, SC.PS.6.12, SC.PS.1.7, SC.ES.8.9, SC.CH.1.9, SC.BS.1.9, SC.PH.1.9, LA.WL.2.2, LA.WL.2.5

Dawn of the Space Age

Re-live the excitement of the early days of space exploration, from the launch of the first artificial satellite to the magnificent lunar landings and privately operated space flights. Be immersed and overwhelmed with this most accurate historic reconstruction of man’s first steps into space.

Who were these men and women that took part in these death-defying endeavors? Witness their drive, their passion, and their perseverance to explore, in Dawn of the Space Age.

Runtime: approximately 40min

Standards Correlation: CTE.5.1.1, SC.5.1.1, SC.5.8.1, SC.5.8.2, SC.5.8.3, SS.5.1.1, SS.5.2.1, SS.5.2.2, SC.6.2.1, SC.6.2.2, SC.6.7.1, SS.6.1.1, SS.6.2.2, SC.7.1.3, SC.8.2.1, SC.8.2.2, SC.8.7.1, SS.8.2.2, SC.ES.2.1, SC.ES.2.3, SC.ES.2.4, SC.PS.2.1, SC.PS.2.2, SC.CH.2.1, SC.CH.2.2, SC.PH.2.1, SC.PH.2.2, SC.BS.2.1

Earth, Moon and Sun

Earth, Moon and Sun is a fulldome Imaginarian show that explores the relationship between the Earth, Moon and Sun with the help of Coyote, an amusing character adapted from Native American oral traditions, who has a razor sharp wit, but is a bit confused about what he sees in the sky. Join this fast-paced and fun-filled show as it explores the wonders of lunar phases, sunrises and sunsets, eclipses, space travel to our Moon and other puzzles. Native American stories are told throughout the show to help distinguish between myths and science. Suitable for children in grades K-6 —though audiences of all ages can appreciate learning the basic science behind these myths.

Runtime: approximately 26 minutes.

Standards Correlation: FA.K.3.3, SC.K.1.1, SC.K.1.2, SC.K.2.1, SC.K.8.2,
IBEX

Join scientists who are investigating the boundary between our Solar System and the rest of our galaxy. This show follows the creation of NASA's Interstellar Boundary Explorer (IBEX). Students will get an in-depth look at the mission and how IBEX is collecting high-speed atoms to create a map of our Solar System's boundary.

Narrated by two inquisitive teenagers, audiences will hear from the scientists and engineers that developed the IBEX mission and created the spacecraft, and get the latest updates on the mission's discoveries.

Runtime: 28 minutes

Standards Correlation: CTE.7-8.2.4, SC.7.1.2, SC.7.1.3, CTE.8.1.1, SC.8.2.1, SC.8.2.2, SC.8.6.3, SC.8.7.1, SC.8.8.4, SC.8.8.8, SC.8.8.10, SC.8.8.11, SC.8.8.12, SC.PS.1.9, SC.PS.6.3, SC.PS.6.8, SC.PS.7.3, SC.PS.7.4, SC.ES.1.7, SC.ES.1.9, SC.ES.2.1, SC.ES.2.4, SC.ES.8.3, SC.ES.8.8, SC.8.9, SC.BS.1.7, SC.BS.1.9, SC.BS.2.1, SC.CH.1.7, SC.CH.1.9, SC.CH.2.1, SC.CH.4.6, SC.PH.1.7, SC.PH.1.9, SC.PH.2.1, SC.PH.4.1, SC.PH.7.4

Magic Tree House Space Mission

Since its debut, the beloved Magic Tree House® book series has been a perennial best-seller. Published in more than 30 countries and 29 languages, the series focusing on the exploits of the brother-sister team of Jack and Annie has sold more than 70 million books in North America alone.

In Magic Tree House® Space Mission, a mysterious "M" sends the intrepid Jack and Annie on a fun-filled journey to discover the secrets of the Sun, Moon, planets, space travel and more. Aligned with early elementary information skills learning objectives, this beautifully-produced show is a winner with Magic Tree House® fans of all ages and school audiences alike.

Now, UNC Morehead Planetarium and Science Center, in partnership with authors Will Osborne and Mary Pope Osborne, brings the blockbuster Magic
Tree House® franchise to fulldome theaters for the first time ever.

An original UNC Morehead Planetarium and Science Center production, written by Will Osborne, co-author of Space, the non-fiction companion and research guide to the Magic Tree House® book Midnight on the Moon. Suitable for all ages

**Runtime:** approximately 32 minutes.

**Standards Correlation:** CTE.K.2.2, HE.K-2.1.2, HE.K-2.1.7, LA.K.3.2, SC.K.1.1, SC.K.2.1, SC.K.7.1, SC.K.8.2, SC.1.8.1, MA.2.2.3, SC.2.2.1, SC.3.6.1, SC.3.8.3, SC.3.8.4, MA.4.3.5, SC.4.1.2, SC.4.7.1, MA.5.4.2, SC.5.8.2, SC.5.8.3, MA.6.3.2, SC.6.2.1, SC.6.6.2

**Maunakea Between Earth and Sky**

Explore connections between Hawaiian culture and Maunakea astronomy. Become immersed in the story of Pele and Poli`ahu and the creation of the Hawaiian Islands. Gaze into the night sky, past planets, galaxies and swirling nebula—back to the beginning of the universe—and fly through an observatory atop Maunakea.

Maunakea Between Earth and Sky is the signature show of the 'Imiloa Astronomy Center in Hilo. The Imaginarium is excited to present the fulldome show for the first time to Oahu audiences. Suitable for grades 4 and higher

**Runtime:** approximately 22 minutes

**Standards Correlation:** SC.4.2.1, SC.4.8.1, SS.4.1.1, SS.4.2.1, SS.4.3.1, SS.4.3.3, SS.4.3.9, SS.4.3.10, SS.4.6.1, SC.5.2.1, SC.5.8.2, SS.5.1.1, SC.6.2.1, SC.6.2.2, SS.6.1.1, SS.6.2.2, SC.7.1.3, SC.8.2.1, SC.8.2.2, SC.8.8.11, SS.8.2.2, SC.ES.2.1, SC.ES.2.3, SC.ES.2.4, SC.ES.8.3, SC.ES.8.10, SC.PS.2.1, SC.CH.2.1, SC.PH.2.1, SC.BS.2.1, SC.ENV.2.1, SC.ENV.5.2, SS.CA.4.1, SS.CA.5.2, SS.CA.5.3, LA.WL.1.1, LA.WL.2.2, LA.WL.2.5, LA.WL.2.6, LA.9.3.2
Origins of Life

Origins of Life deals with some of the most profound questions of life science: the origin of life and the human search for life beyond Earth. Starting with the Big Bang, in chronological order, the show deals with 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 a motivational journey through time and a celebration of life on Earth. It features many recent discoveries related to life science, demonstrating to the youth that if there was ever a time that science made its greatest advances, it would be right now! Narrated by Lord Robert Winston. Origins of Life is suitable for grades 4 and up.

Runtime: approximately 24 minutes

Standards Correlation: SC.4.5.3, SC.4.6.1, SC.4.8.1, SC.4.8.2, CTE.5.1.1, SC.5.2.1, SC.5.3.2, SC.5.8.1, SC.5.8.2, SC.5.8.3, SC.6.3.1, SC.6.6.5, SC.6.6.9, SC.7.1.3, SC.7.3.2, SC.7.4.1, SC.7.4.3, SC.7.5.5, SC.7.5.6, SC.8.1.1, SC.8.2.2, SC.8.5.1, SC.8.8.8, SC.8.8.11, SC.ES.1.1, SC.ES.1.9, SC.ES.2.4, SC.ES.8.3, SC.ES.8.9, SC.ES.8.10, SC.PS.1.1, SC.PS.1.9, SC.PS.6.12, SC.CH.1.9, SC.CH.8.1, SC.PH.1.1, SC.PH.1.9, SC.BS.1.1, SC.BS.1.9, SC.BS.3.4, SC.BS.5.1, SC.BS.5.2, SC.BS.5.3

Secrets of the Dragon

Come take a ride on the back of a dragon and explore the mysteries of the universe. This magical story whisks two youths through the Universe at great speed. From their perch on the back of a secretive dragon, the youths learn about worlds beyond theirs and a bit about themselves in the process.

Secret of the Dragon touches on fundamental astronomical science while remaining entertaining enough for children and makes for a wonderful family-oriented show. It is “magical ride through the Universe”. Suitable for grades K-6.

Runtime: 11min

Stars

Every star has a story. Some are as old as time, faint and almost forgotten. Others burn bright and end their lives in powerful explosions. New stars are created every day, born of vast clouds of gas and dust. Through every phase of their existence, stars release the energy that powers the Universe. Journey to the farthest reaches of our galaxy and experience both the awesome beauty and destructive power of STARS.

The stunning animation highlighted by astronauts, spacecraft, telescopes, nebulas, clusters, and more, was created by the talented team of the National Space Centre (Leicester, UK). This dramatic program features the voice talent of Mark Hamill. The Nashville Symphony Orchestra, conducted by Albert-George Schram, resident conductor, performed part of the STARS soundtrack.

Runtime: 26 minutes

Standards correlation: SC.5.1.2, SC.5.8.1, SC.5.8.2, SC.5.8.3, SS.5.1.1, SS.5.2.1, SS.5.3.1, SC.6.2.1, SC.6.6.4, SS.6.1.1, SS.6.2.2, SC.7.1.3, SC.8.1.1, SC.8.2.1, SC.8.6.1, SC.8.6.3, SC.8.7.1, SC.8.8.8, SC.8.8.11, SC.ES.1.6, SC.ES.1.7, SC.ES.2.1, SC.ES.2.4, SC.ES.8.9, SC.PS.1.6, SC.PS.1.7, SC.PS.1.9, SC.PS.2.1, SC.PS.6.6, SC.PS.6.12, SC.PS.7.3, SC.CH.1.6, SC.CH.1.7, SC.CH.1.9, SC.CH.2.1, SC.PH.1.6, SC.PH.1.7, SC.PH.1.9, SC.PH.2.1, SC.PH.6.4, SC.PH.8.1, SC.BS.1.6, SC.BS.1.7, SC.BS.1.9, SC.BS.2.1

Tales of the Mayan Skies

Tales of the Maya Skies immerses Imaginarium audiences in the world of the ancient Maya — a culture connected to the Universe through science, art and mythology. Rendered with the power of fulldome digital technology and three-dimensional graphics, this premier Imaginarium show recreates the splendor of Maya architecture and astronomy. Grammy Award winner and Oscar nominee Lila Downs narrates this magnificent journey through Maya cities and temples aligned to the movements of the Sun, Moon and planets. Rediscover the treasures of this advanced civilization whose sophisticated mathematics predicted eclipses, forecast seasonal change and formulated a calendar of extraordinary precision. Tales of the Maya Skies will transport you back to the beauty of Chichen Itza, Mexico, the “seventh wonder of the modern world.” Tales of the Mayan skies is suitable for grades 6 and up. Tales of the Mayan Skies is also available in Spanish.
Runtime: approximately 35 minutes

Standards Correlation: SC.6.2.1, SC.6.2.2, SS.6.2.2, SS.6.3.2, SS.6.6.1, SC.7.1.2, SC.7.1.3, SC.8.2.1, SC.8.8.3, SC.8.8.9, WL.IS.6-8.2.1, WL.IS.6-8.4.1, WL.IS.6-8.4.2, SC.ES.1.9, SC.ES.2.1, SC.ES.2.4, SC.ES.8.7, SC.ES.8.10, SC.PS.1.9, SC.PS.2.1, SC.CH.1.9, SC.CH.2.1, SC.PH.1.9, SC.PH.2.1, SC.BS.1.9, SC.BS.2.1, SC.HP.1.9, SC.HP.2.1, SS.CA.4.1, WL.IS.Y1.2.1, WL.IS.Y1.4.1, WL.IS.Y1.4.2, WL.IS.Y2.2.1, WL.IIS.Y3.2.1, WL.IIS.Y3.2.2, WL.IIS.Y3.4.1, WL.IIS.Y4.2.1, WL.IIS.Y4.4.1, WL.IIS.Y5.2.1

Two Small Pieces of Glass

While attending a local star party, two teenage students learn how the telescope has helped us understand our place in space and how telescopes continue to expand our understanding of the Universe. Their conversation with a local astronomer enlightens them on the history of the telescope and the discoveries these wonderful tools have made. The students see how telescopes work and how the largest observatories in the world use these instruments to explore the mysteries of the universe.

While looking through the astronomer’s telescope, the students, along with the planetarium audience, explore the Galilean Moons, Saturn's rings, and spiral structure of galaxies. During their conversation with the astronomer, they also learn about the discoveries of Galileo, Huygens, Newton, Hubble and many others.

A fulldome video show sponsored by the National Science Foundation. Produced by the Imiloa Astronomy Center; the Carnegie Science Center and Interstellar Studios.

Runtime: 23 minutes

Standard Correlations: SC.6.2.1, SC.6.2.2, SC.6.6.4, SC.7.1.3, SC.8.2.1, SC.8.2.2, SC.8.6.1, SC.8.6.3, SC.8.7.1, SC.8.8.8, SC.8.8.9, SC.8.8.10, SC.8.8.11, SC.8.8.12, SC.ES.1.6, SC.ES.1.7, SC.ES.1.9, SC.ES.2.1, SC.ES.2.4, SC.PS.1.6, SC.PS.1.9, SC.PS.2.1, SC.PS.6.5, SC.PS.6.6, SC.CH.1.6, SC.CH.1.7, SC.CH.1.9, SC.CH.2.1, SC.PH.1.6, SC.PH.1.7, SC.PH.1.9, SC.PH.2.1, SC.PH.6.3, SC.BS.1.6, SC.BS.1.7, SC.BS.1.9, SC.BS.2.1