NISE Network Online Workshop

Big or Small, Make Your Apollo 50th Anniversary Celebration Events a Moonshot!



May 14, 2019

Welcome!

Today's presenters are:

- Andrew Shaner Lunar and Planetary Institute
- Amelia Chapman JPL/ NASA's Museum Alliance
- Darrell Porcello Children's Creativity Museum
- Ruth Watt Saint Louis Science Center, MO
- Rachel Quimby EcoTarium, MA
- Lucien Scott Creative Discovery Museum, TN



As we wait to get started with today's discussion, please:

Introduce yourself! Type your name, institution, and location into the Chat Box

Questions? Feel free to type your questions into the <u>Chat Box</u> at any time throughout the webinar or use the raise your hand function in the participants list and we'll unmute your microphone.

Online Workshop Overview



5 min
Andrew Shaner – Lunar and
Planetary Institute



5 min
Amelia Chapman – JPL/
NASA's Museum Alliance



5 minDarrell Porcello – Children'sCreativity Museum



Online Workshop Overview



10 min Ruth Watt – Saint Louis Science Center, MO

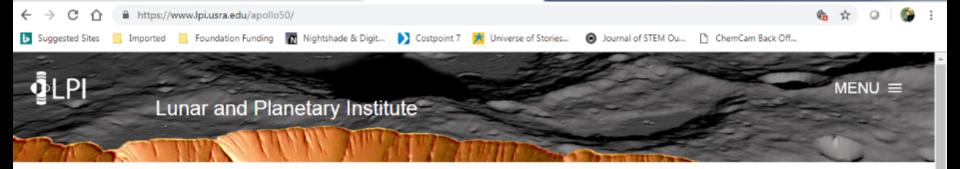


10 min Rachel Quimby –EcoTarium, MA



10 minLucien Scott – CreativeDiscovery Museum, TN

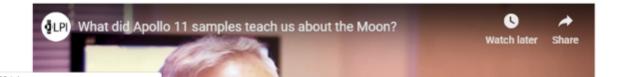






Past Exploration ▼ Future Exploration ▼ LPI Resources ▼ Other Resources ▼

Founded at the height of the Apollo program in 1968, the Lunar and Planetary Institute (LPI) is proud to share our resources with the world as we celebrate the 50th anniversary of Apollo and look to the future. Below are links to LPI's collections of lunar science and exploration resources as well as links to resources available for your Apollo anniversary events.





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Looking to the past...









Looking to the past...









Apollo Surface Panoramas

A digital library of photographic panoramas captured by Apollo astronauts while exploring the Moon's surface. These images provide a spectacular boots-on-the-ground view of the lunar landscape.

Digital Lunar Orbiter Photographic Atlas of the Moon

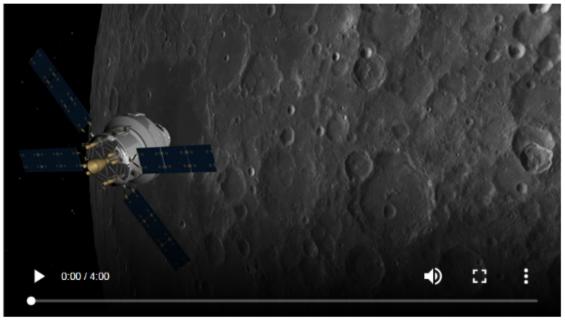
This digital archive contains imagery found in Bowker and Hughes NASA Special Paper 206. This online archive offers many improvements upon its original hardbound predecessor including multiple search capabilities to expedite locating images and features of interest. To aid in feature identification, annotated versions of each image are included with the original

Lunar Map Catalog

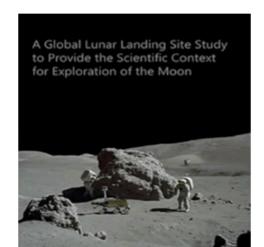
A collection of topographic, geologic, and shaded relief maps and charts of the Moon in a variety of scales.

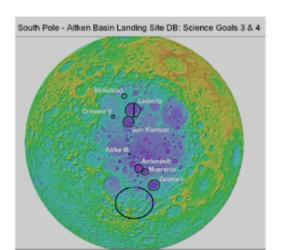


...To Prepare for the Future



Mission to the Lunar Farside



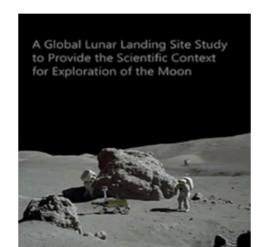


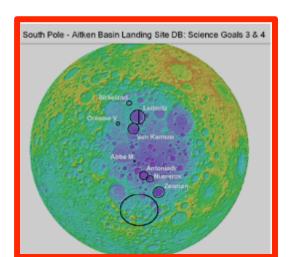


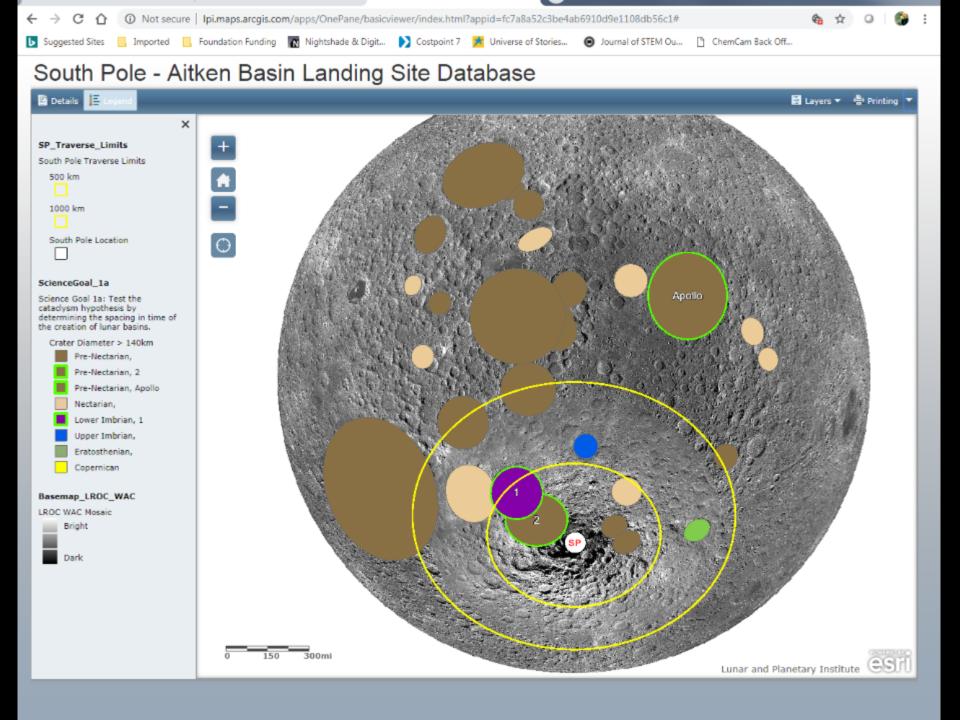
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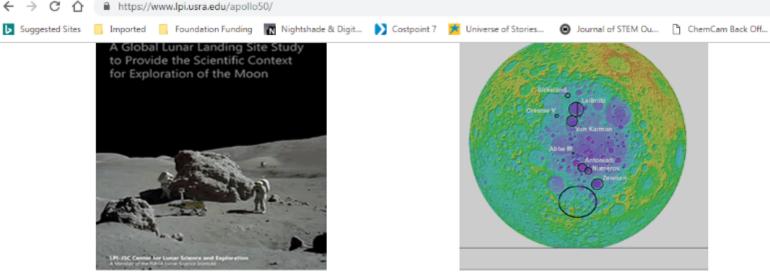


Mission to the Lunar Farside









Center for Lunar Science and Exploration

The Lunar and Planetary Institute (LPI) and the Johnson Space Center (JSC) have a long and successful history of collaborative research and exploration activities that began with the Apollo program. The LPI and JSC have harnessed that heritage to build the Center for Lunar Science and Exploration to better support our nation's new lunar science and exploration activities.

Solar System Exploration Research Virtual Institute (SSERVI)

NASA created the Solar System Exploration Research Virtual Institute (SSERVI) to address basic and applied scientific questions fundamental to understanding the Moon, Near Earth Asteroids, the Martian moons Phobos and Deimos, and the near space environments of these target bodies.

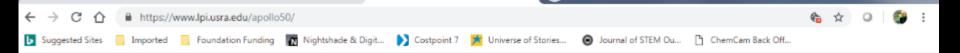
Moon to Mars

"The NASA Administrator shall, 'Lead an innovative and sustainable program of exploration with commercial and international partners to enable human expansion across the solar system and to bring back to Earth new knowledge and opportunities."

Lunar Exploration Analysis Group (LEAG)

The Lunar Exploration Analysis Group (LEAG) was established in 2004 to support NASA in providing analysis of scientific, technical, commercial, and operational issues in support of lunar exploration.





LPI Public Engagement Resources



Marvel Moon



Lunar Science and Exploration Poster Set



LPI Library Resources



Apollo-Earth Day Connection Introduction



Apollo-Earth Day Connection Earthrise

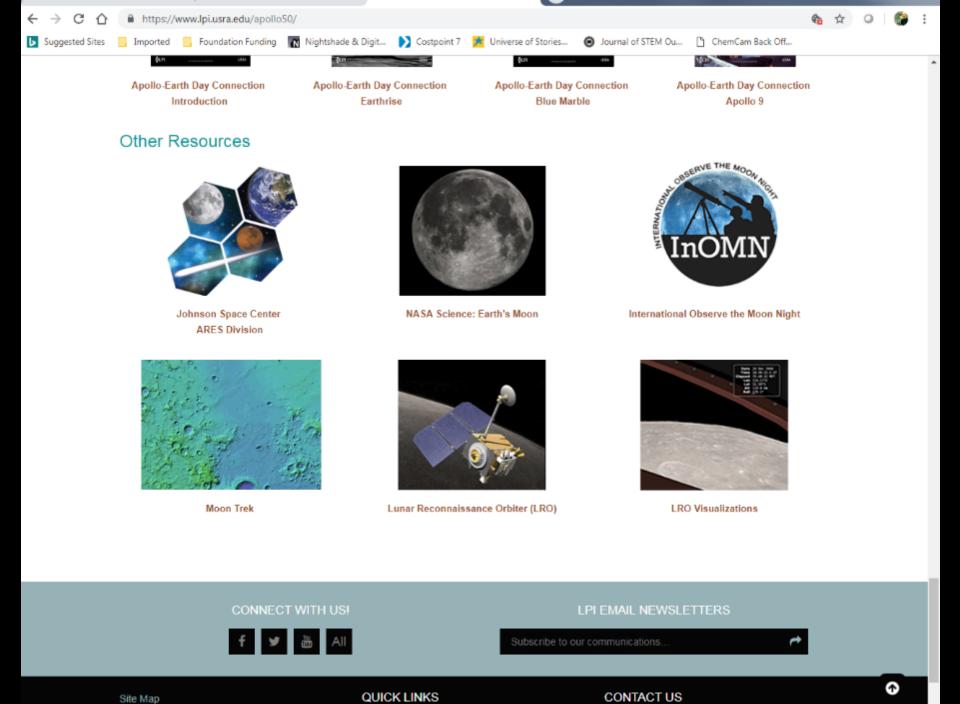


Apollo-Earth Day Connection Blue Marble



Apollo-Earth Day Connection Apollo 9





NASA's Office of STEM Engagement [Education] presents Apollo anniversary resources on two main sites:



NASA's Museum Alliance provides informal educators access to resources and professional development on *all* NASA topics, including Apollo. Membership is free.



Space STEM focuses on the Apollo anniversary and Moon to Mars. It's home of NASA's Apollo anniversary map and calendar. For all audiences, no membership.



Competitive Program

Aeronautics Research

Human Exploration and Operations

Science

Space Technology

Over 1,900 professionals at more than 900 U.S. museums, science centers, planetariums, NASA Visitor Centers, Challenger Centers, observatories, parks, libraries, camps, and youthserving organizations are partners in the Museum Alliance, Mores

From exhibits to planetarium shows to educator workshops to special lectures, Museum Alliance partners present space exploration and aeronautics programs and events for their local communities. Mores-

NASA Teams Engaging Affiliated Museums and Informal Institutions (former) CP4SMPVC) aligns with NASA and Federal science. technology, engineering, and math (STEM) education goals. Mores-

Featured Events

materials. More>

current NASA science and

technology to free-choice

development of informal

education providers and

access to NASA staff and

learners through professional



Webinar- Mars in May Thursday, May 2, 2019



"Star Wars" Day Saturday, May 4, 2019



Mission Patch Competition Sunday, May 5, 2019

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MEET OUR COMMUNITY

Alliance, More>

Over 1,900 professionals The Museum Alliance brings current NASA science and more than 900 U.S. technology to free-choice museums, science center learners through professional planetariums, NASA Visito development of informal Centers, Challenger Cent education providers and observatories, parks, access to NASA staff and libraries, camps, and you materials. More> serving organizations are partners in the Museum

Featured Events

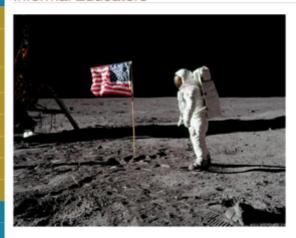
OUR COMMUNITY





Webinar- Mars in May Thursday, May 2, 2019 "Star Wars Saturday, May 4.

Deep dive of Apollo 50th Anniversary Resources for Informal Educators



Website: Space STEM Forum Apollo 50th resource page Apollo 50th anniversary landing page Apollo 11 NASA Mission Report 2017 Article and videos

This page may contain some non-NASA content. Please note that NASA does not endorse nor verify third party content. These are simply a sampling of available resources, and we encourage you to search for more on your own. Any opinions, findings, conclusions, or recommendations expressed in third party materials are those of the authors and do not necessarily reflect the views of NASA.

last updated: 5/1/2019 - Added Apollo postcards and book recommendations, Live talks from NASA Wallops and Johnson, as well as Mission Patch Design activity, and two new activity booklets. Newest updates are highlighted

- #exhibits and planetarium shows includes instructions on how to obtain and make exhibits, artifacts, models, etc.
- · #info and media includes websites, images, audio, and general information
- #telecons and presentations includes ready-to-use presentations and recordings from NASA experts
- #movies/videos includes movies/video products
- · #education includes curriculum, activities, and tools for use in hands-on learning

Whatever you do, be sure to share it using the quick and easy Museum Alliance event form. It will not only show up on our map, but will also show up on the Space STEM Forum map, NASA Education's dedicated Apollo 50th anniversary event page.



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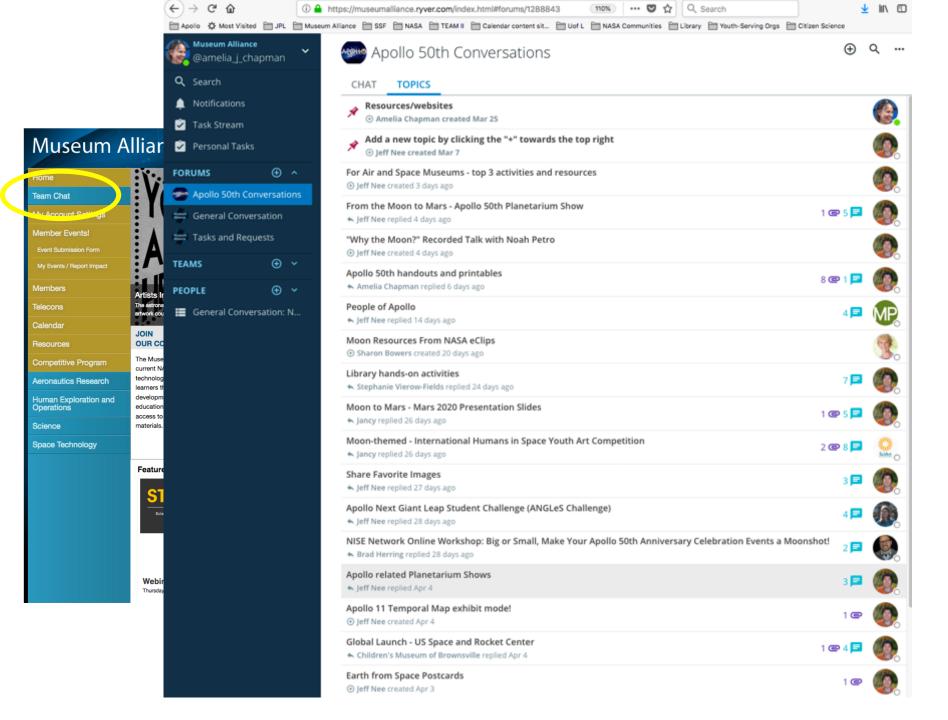
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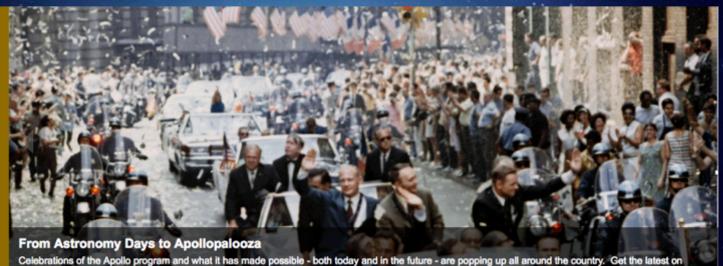
Small Steps to Giant Leaps

 Map: Events/Exhibits Submit Event/Exhibit

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what's happening near you!

FORUM INFORMATION

Get to know the Space STEM Forum, and how to use its resources to enhance student understanding and engagement.



SMALL STEPS TO GIANT LEAPS

Look forward to the future of space exploration through these educational initiatives.



MAP OF EVENTS AND **EXHIBITS**

Nationwide opportunities to learn about Moon missions - past, present and future!



RESOURCES

Explore STEM engagement and education materials for learners of all ages.



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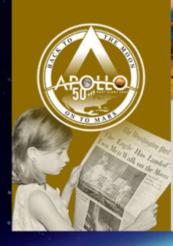
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From Astronomy Days to Apollopalooza

Celebrations of the Apollo program and what it has made possible - both today and in the future - are popping up all around the country. Get the latest on what's happening near you!





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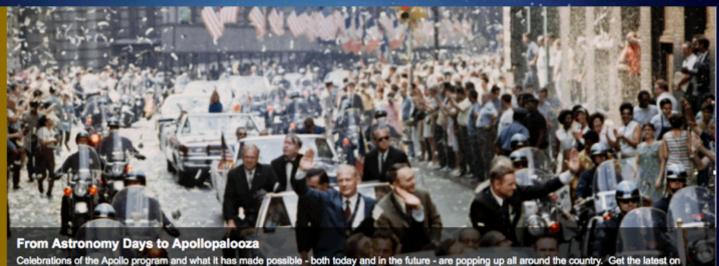
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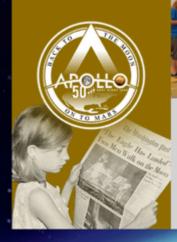
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Resources

The NASA Office of STEM Engagement offers great resources on all NASA topics; for anniversary content be sure to check out the NASA Apollo 50th website. We've also collected some other key sites to help you:



Apollo Info / Original Sources



Images / Audio / Video



Lessons / Activities





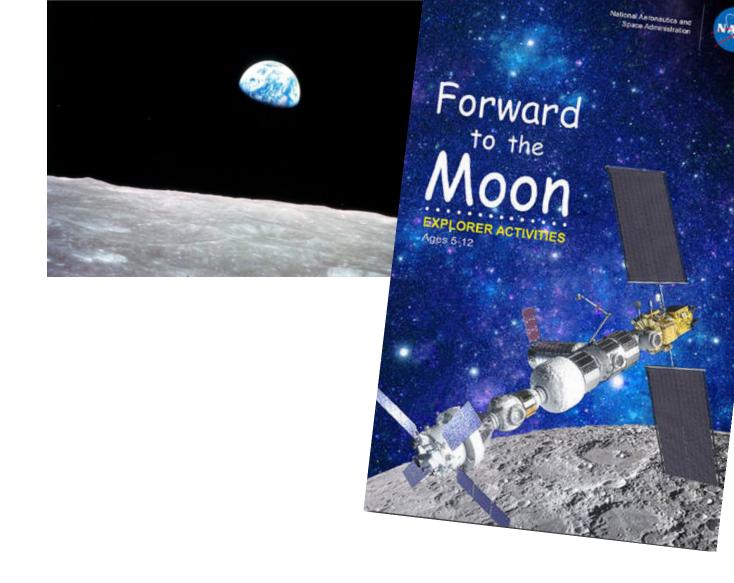


Our Moon



Contests and Challenges







LUNAR ARCHITECT



Forward to the Moon













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Images/ Audio/ Video

Key collections:

,	
Apollo 50th Gallery	Videos from and about Apollo 7-17, audio highlights from each day of Apollo 11, plus photos.
NASA Image and Video Gallery	Enter a search term (e.g. "Apollo 11") for a comprehensive collection of NASA images
Apollo Image Archive	Digital archive of all the original Apollo flight films
NASA's Apollo Pages/ Apollo 11 HD videos	Restored Apollo 11 videos of key moments
Apollo Audio and Movie Segments	Some key moments from multiple missions, including lift offs and Apollo 11 landing ("The Eagle has landed")
NASA's Apollo Pages/ Image gallery	This collection of mission images isn't searchable, but many iconic photos can be found in the first few pages
NASA's Apollo Pages/ Video gallery	Like the Image Gallery, it's not searchable but you don't have to scroll very far to find key videos
Human Exploration and Operations/Year of Human Exploration	Graphics files for NASA 60th and Apollo 50th seals, banners and logos
Lunar Reconnaissance Orbiter Camera	Some of the most requested LROC images, including images of the Apollo landing sites
NASA Regional Planetary Image Facilities - Imagery and Maps	Pictures of and from the Moon
NASM's The Apollo Program Multimedia Gallery	Photos, patches, and diagrams

Some featured images:



Apollo 11 crew, left to right: Neil A. Armstrong, Commander; Michael Collins, Module Pilot; Edwin E. "Buzz" Aldrin, Lunar Module Pilot.



The 363-feet tall Apollo 11 space vehicle launches from Kennedy Space Center on July 16, 1969.





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Our Moon



Contests and Challenges





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Lessons and Activities

BY AUDIENCE

























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Afterschool Enrichment



Suggested Lesson: World Tales of the Moon

Audio recordings of storytellers sharing myths and folktales from Mexico, Algeria, the Ivory Coast, China and North America.

Full Collection: Explore Marvel Moon

Discover our scientific, cultural, and personal understanding of Earth's nearest natural neighbor. Explore Marvel Moon will acquaint you NASA's investigations into the ongoing saga that has shaped our Moon. The activities are suitable for children ages 8-13.



Suggested Lesson: Moon Dance

Full Collection: Space School Musical

Join teenager Hannah on a trip through the solar system in this "hip-hopera" that uses song and dance to introduce the planets, moons, asteroids and more. Download the lyrics for students to learn and perform or just play the videos in class.





Suggested Lesson: Life on Mars (Grow a Garden)

Children consider the requirements of living things, compare the surface conditions of Mars and Earth, learn about astrobiologists studying life under extreme conditions, and consider the similarities and differences in the type of life that would be possible on Mars as compared to Earth.

Full Collection: Explore!

Explore provides hands-on space science activities and supporting resources for out-of-school time programs at libraries, camps, museums, planetariums, librarians, and clubs. Use Explore to engage children and pre-teens in the wonders of lunar exploration.







Sing up Lond

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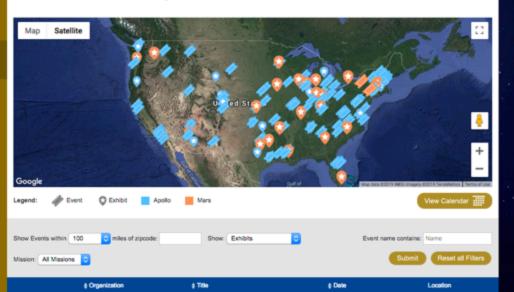
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~

Museum of Science, Boston



Science on Screen: First Man with former astronaut Jeffrey Hoffman 05-06-2019

Boston, Massachusetts

On the heels of their six-time Academy Award®-winning smash, La La Land, Oscar®-winning director Damien Chaze®e and star Ryan Gosling reteam for First Man, the riveting story behind the first manned mission to the Moon, focusing on Ne® Armstrong and the decade leading to the historic Apollo 11 flight. A visceral and intimate account told from Armstrong's perspective, based on the book by James R. Hansen, the film explores the triumphs and the cost — on Armstrong, his family, his colleagues and the nation isself — of one of the most dangerous missions in history. Before the film,



Coconino Community College Lone Tree Campus



Lunar Legacy Lecture Series

former NASA astronaut Jeffrey Hoffman will discuss the legacy of Apollo 11 and share his personal memories of Neil Armstrong.

05-08-2019

Flagstaff, Arizona

Lunar Lecture: Recognizing Flagstaff's Apollo Training Sites Learn about the historical significance of Flagstaff's Apollo training sites on Wednesday. May 8 as part of the Lunar Legacy Lecture Series at Coconino Community College Lone Tiree Campus. Ian Hough and Ben Carver explore the historical significance of Apodic automate training sites at Cinder Lake and Sursett Crater Volcano National Monument as well as the process of placing these areas on the National Register of Historic Places. This FREE 18-month speaker series celebrates the Apollo Moon Missions and Flagstaff's critical role in these historic lunar landings. Join us at 6 p.m., the second Wednesday of every month at the Coconino Community College Lone Tiree Campus.



Warren County Historical Society



NASA Visits Lebanon

05-09-2019 - 05-11-2019

Lebanon, Ohio

In honor of Neil Armstrong's historic walk on the moon, NASA will be visiting Lebanon (Armstrong's long time home) with a series of events in Harmon Museum, Lebanon Conference Center and the Lebanon Public Library. With a planetarium, talks by astronaut, and genuine Moon rocks, this is a must for any outer space fan.



NASA WFF Visitor Center



Astronomy Night

05-10-2019

Wallops, Virginia

The NASA Wallops Right Facility Visitor Center and its partner the Delmanva Space Sciences Foundation will host an Astronomy Night event from 7:30 to 10 p.m. on Firday, May 10. This event begins with an astronomy presentation in the Visitor Center's auditorium at 7:30 p.m. followed by night sky observations through high-powered telescopes operated by the Delmanva Space Sciences Foundation on the grounds of the Visitor Center from 7:30 p.m. until 10 p.m. Drop-in, hands-on space science activities, videos, and astronomy resources will also be available from 8 – 9 p.m. The astronomy presentation and indoor activities will take place regardless of the weather conditions. However, the telescope viewing is subject to cancellation due to inclement weather. The event is free and open to the public. Doors open at 7:15 p.m.





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Legend:











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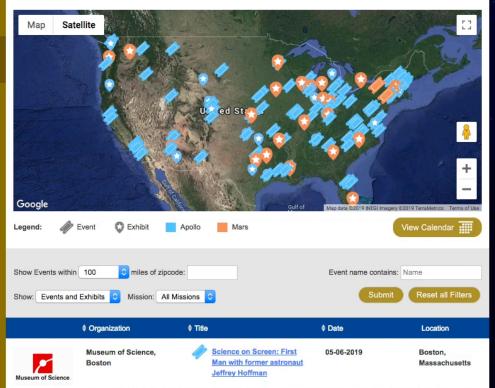
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How to get on the map:

- Museum Alliance members regularly share events on the "Events Near Me" map; relevant Apollo and Moon to Mars items will automatically appear on the Space STEM map and calendar as well.
- Non-Museum Alliance members can submit items via the Space STEM site.







Amelia.J.Chapman@jpl.nasa.gov

https://informal.jpl.nasa.gov/museum/

https://spacestem.nasa.gov/



<u>VIDEO</u> - Apollo landing sites visualization produced by NASA's Solar System Trek team https://vimeo.com/317054974







he Moon: NASA is Going Back and Looking Forward



Notes: In 2019 we are celebrating the 50th anniversary of NASA's groundbreaking Apollo 11 mission to land the first humans, Neil Armstrong and Buzz Aldrin, on the Moon. This is a time for us to reflect on the amazing achievements of the first Moon landings and look forward to the major role the Moon will play in NASA's future. An estimated 530 million people watched Niel Armstrong's televised image and heard his voice describe the event as he took "one small step for a man, one giant leap for mankind" on July 20, 1969.

Photo

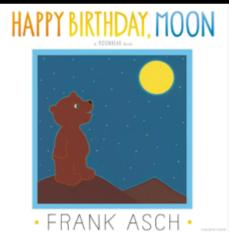
Apollo 11 Mission Image — Astronaut Edwin ("Buzz") Aldrin https://moor.nasa.gov/resources/189/apollo-11-mission-image-astronaut-edwin-aldrin/?category=images Image credit; NASA/ISC

Apollo III Mission Image – Autonaut Edwin ("Bluzt") Aldrin https://moon.ness.gov/hesources/183/apollo-11-mission image-astronaut-edwin-aldrin/Tcategory-images Image credit: NASA/ISC

PRESENTATION - The Moon: NASA is Going Back and Looking Forward http://www.nisenet.org/catalog/moon-nasa-going-back-and-looking-forward-presentation

nisenet.org/moon50











Books for Story Times and Programs from nisenet.org/moon

Included in the Explore Science: Earth & Space 2019 toolkit, from the Astronomical Society of the Pacific

• Breakfast Moon picture book by Meg Grower and illustrated by David Barker

From STARnet's <u>list of Our Moon books</u>

- Happy Birthday, Moon Asch, F. (2014). Aladdin.
- <u>Science Adventures with Max the Dog Series</u> Bennett, Jeffrey (2008-2015). Big Kid Science. Grades 2-4; fiction
- Faces of the Moon Crelin, B. (2009) Watertown, MA: Charlesbridge. Grades 1 4
- Moon Base Alpha Series Gibbs, Stuart (2013-2016). Simon & Schuster Books for Young Readers. Grades 3-7; fiction
- The Moon and how to observe it Grego, P. (2016). Firefly Books. (ISBN-13: 978-1770857155)
 Appropriate for older youth and adults
- A Moon of My Own Rustgi, Jennifer (2016). Dawn Publications (ISBN-13: 978-1584695738) Grades PreK- 3.
- Moon: a Peek-Through Picture Book Teckentrup, B. (2018). Random House Children's Books.
- Phrases of the Moon Lewis, J. Patrick. 2018. [S.I.]: Creative Co.
- Hello to You, Moon Morgan, Sally. 2018. [S.I.] Little Hare



SAINT LOUIS SCIENCE CENTER

Connect with curiosity.

Apollo 50th Anniversary <u>Moon Lan</u>ding Party

Ruth Watt, Manager of STEM Events

Apollo 50th Anniversary Events

July 12, 2019

- Star Date
- Magnificent Desolation showing in Omnimax

July 13, 2019

Opening of A New Moon Rises Exhibition

July 15-19, 2019

Summer Space Camp

July 20, 2019

SciFest: Apollo 50th Anniversary Moon Landing Party



SciFest at the SLSC

- Free all-day events connecting the community to STEM content and applications.
- Hands-on experiences and presentations
- Learning from and alongside STEM experts, professionals, and enthusiasts.









SciFest- Apollo 50th Anniversary Moon Landing Party

- NASA anchor site
- Community Partners and Collaborators
 - Using NISE Net Earth and Space Kits to engage the public
- Immersive and commemorative elements





















Worcester on the Moon





Robert H. Goddard (1882-1945)
"Father of Modern Rocketry"

Physicist!

Inventor!

Professor!

Inventor!



Esther K. Goddard (1902-1982)

"The woman who worked tirelessly to ensure her husband's legacy didn't just disappear."

Weighed 10 pounds

Liquid oxygen and gasoline

Rocketed 40 feet in the air

Flew for 2.5 seconds

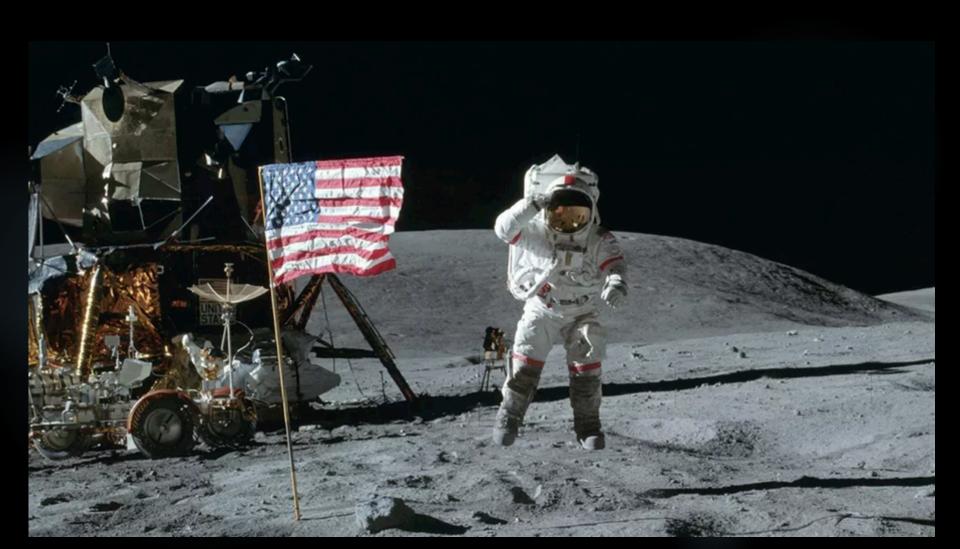


March 16, 1926. Auburn, MA (Aunt Effie's Farm)

Forty-three years later, we were on the moon.

Coincidence?

We think not.



Worcester is home to many major players in astronomy research and space exploration...















The moon landing anniversary is WAY is bigger than any **one** organization.

Why not join forces as a **city** to celebrate a whole **calendar** of events as separate organizations, and then do one **bigger** event on July 20?!

Smaller kick-off events started in March and included:

Let the celebrations commence!



- Worcester Historical Museum: Get to know Goddard
- Worcester Public Library "Space Story Time"
- Technocopia Air & Rockets programs
- Clark U: Goddard Library Celebration





- Rocket Day (March 9)
- Explore Space Day (April 6)
- Lunar Libations (May 17)

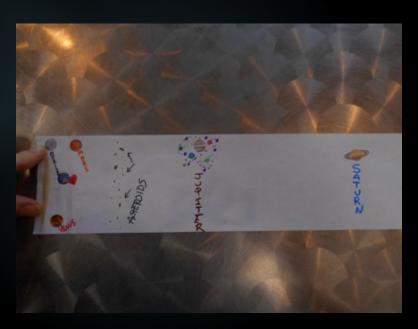














Worcester on the Moon July 20, 2019



A TON of DIVERSE organizations city-wide wanted to participate, which we were delighted (and a little surprised) by!

Here are some of them (which ones would you expect?)

Participating Organizations



museum of science and nature

technocopia worcester







HUNCHBACK GRAPHICS

BRANDING & DESIGN







WORCESTER
HISTORICAL MUSEUM





T.E.C. Schools

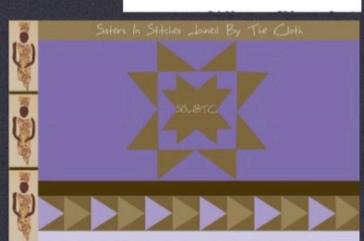
TOWER HILL











They are all donating in-kind. *

Some highlights of the July 20th event include:

- Clark University will display rare Goddard artifacts, including the rocket launcher he used in 1926 at Aunt Effie's.
- Local arts organization working with high schoolers to create fashionable/innovative "space suits" to be displayed at locations around the city.
- Local futures league baseball team (go, Bravehearts!) is hosting a "Space Night"-themed game that evening. They're sponsoring a bike ride from downtown to the ball field
- Local coffee shop is playing archival space-themed footage all day.
- Several restaurants are serving space-themed cocktails—Buzzed Aldrin anyone?

^{*} If you are seeking monetary donations, start seeking early!

Create a "star map" so folks know where to go...

Worcester On The Moon

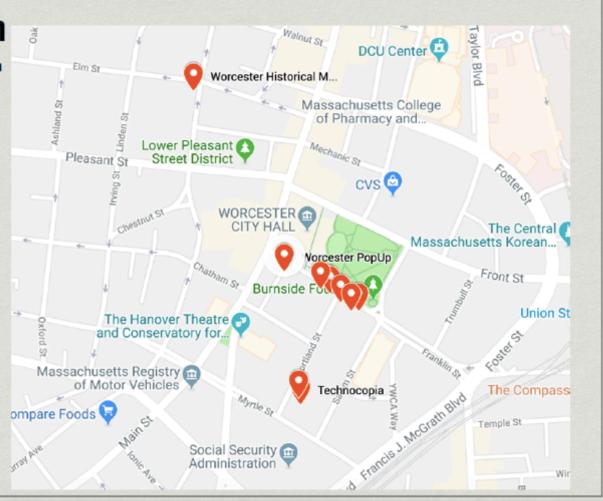
Downtown

Worc Historical Museum
Worcester Pop Up
Technocopia
Arts Worcester
Craft Table & Bar
Beer Garden
Brew On The Grid
Stix
Revolution

Historic Sites:

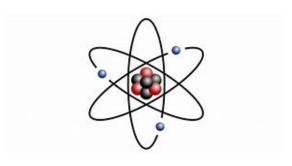
Goddard House Goddard Grave Skull Tomb WPI Clark Univ.





Every vision is a joke until the first [wo]man accomplishes it... - Robert Goddard

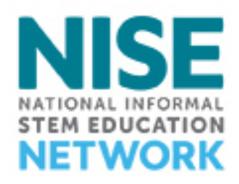




NISE Network - NASA and the Creative Discovery Museum

Chattanooga, TN



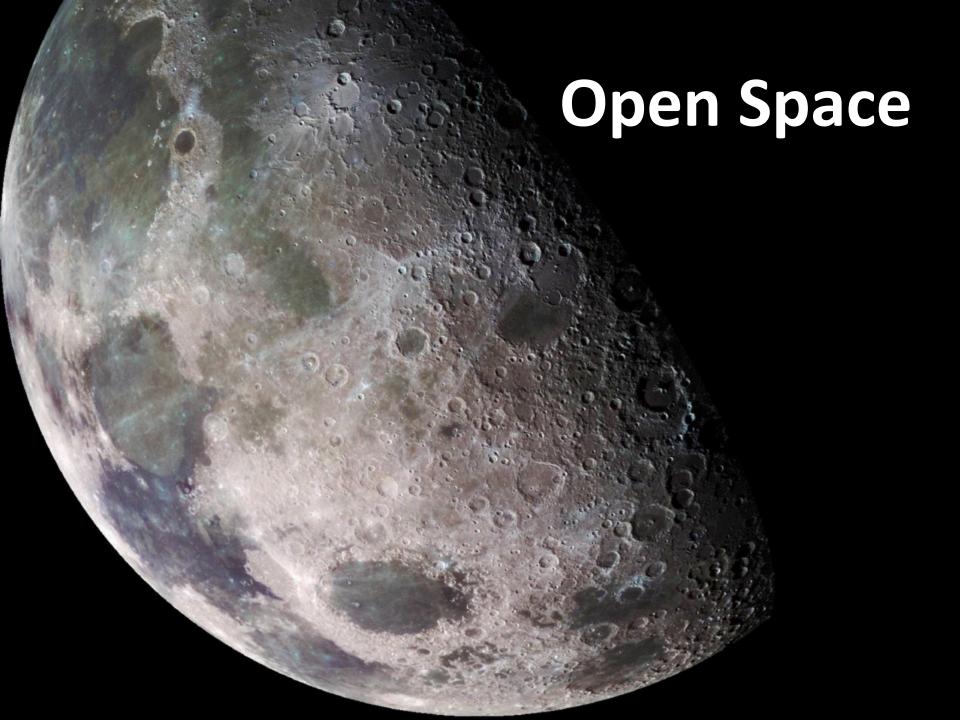






Stomp Rockets









For more information please visit:

cdmfun.org

Discussion & Questions?



Our Next Workshop



Tuesday, June 4, 2019 2-3pm ET / 11am-12pm PT

Earth & Space Science for Early Learners

- Dawn Baldwin, Children's Museum of Science & Technology
- Emily Belle, Sciencenter
- Anne Drake, Great Lakes Children's Museum
- Anna Hurst, Astronomical Society of the Pacific
- Katie Julsrud, Children's Museum of Eau Claire
- Stephanie Kadum, Stepping Stones
 Museum for Children



Applications Open Late Summer 2019!

Explore Science: Earth & Space 2020 toolkit applications

due November 1, 2019



http://www.nisenet.org/earthspacekit-apply

Get Involved

Learn more and access the NISE Network's online digital resources nisenet.org

Subscribe to the monthly newsletter nisenet.org/newsletter



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Thank You





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