



INSPIRE-ENGAGE-EDUCATE-EMPLOYThe Next Generation of Explorers

Forward to the Moon:

Inspired NASA Museum Collaborations Build Future Communities

September 23, 2019
Metro Toronto Convention Centre Room 715

PLEASE SIGN IN!!

Session Objectives:



 Understand the benefits to the institution of any size and to the audience of collaborating/participating in a

 Learn from case study of Apollo 11
 50th anniversary

national event.



Contribute to early planning for next big NASA events:
 Mars 2020 and Artemis-1 missions

Some Benefits:



- Community resources can open up:
 - stronger support by internal media departments
 - more attendance for the event
- The connection to an external science organization's event adds legitimacy to the museum as a serious community science resource, and a more compelling experience for visitors.
- It allows idea exchange and community-building with other museums.

Why Stay for this Session?



 We'd like to show you how you how working on a national level with a large organization is achievable and accessible.

 We'll give you "front row seats" to helping plan how Mars 2020 and Artemis, Moon to Mars will be celebrated together. You have the ears of NASA right now.

Agenda



- Opening Comments
- Overview of Apollo 11 50th Anniversary and Resources
- 3-minute presentations from 6 different organizations on their experience (20 minutes)
- Overview of upcoming big NASA mission milestones
- Small group targeted discussions (30 minutes)
- Report-out (10 minutes)
- Evaluation





Oscar Florianus Bluemner; Moon Radiance, 1927





NASA's Museum Alliance

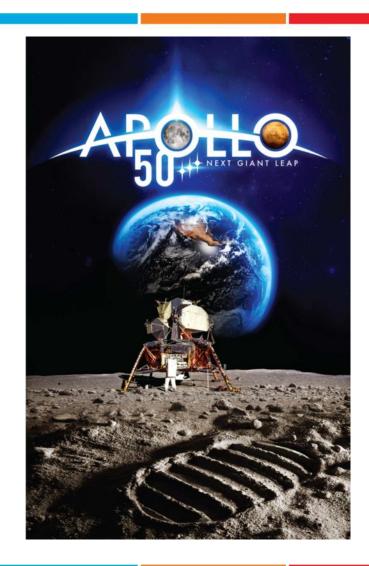
Audience: Informal Educators

- Deep dive of resources
- Webinars with NASA experts
- Conversational Forum
- Map of member events

spaceSTEM.nasa.gov

Audience: Anyone

- "Top picks" of resources
- Where to dig deeper
- How to get involved
- Map/calendar of events







Saint Louis Science Center

Apollo Moon Landing: 50th
Anniversary Party



Community Driven









Leveraging Regional and National Partnerships







Utilizing NASA Resources















Apollo 11 inspires Curious Minds!

- 10 Public Events including a visit from Astronaut Mark Kelly
- Celebration of past, present, and future science
- Featured as part of NASA TV broadcast









Impact and Benefits

- FUN!
- Serve as hub for science in our community
- Attracted more than 8,000 attendees
- Opportunities for sponsorship
- Direct revenue impact

12



Engaged 12 Corporate and Community Partners



36%★



Capstone events averaged 36% attendance increase over LY



102%



Capstone events averaged 102% revenue increase over LY





Total Media Results

- Earned Media Impressions: more than 106 million!
- Earned Media Value: \$400K



- NASA TV
- LA Times
- The LIST
- Arizona Highways
- Green Living Magazine
- Fox 10
- ABC 15

- NBC 12
- KTAR News
- NPR/KJZZ
- East Valley Tribune
- Social Pulse
- City Sun Times















Join me for Table Talk:

- Engaging your makerspace
- Engaging Media
- Floor Activities
- Collaborations and Partnerships
- Whatever You want to discuss!

CONTACT INFO:

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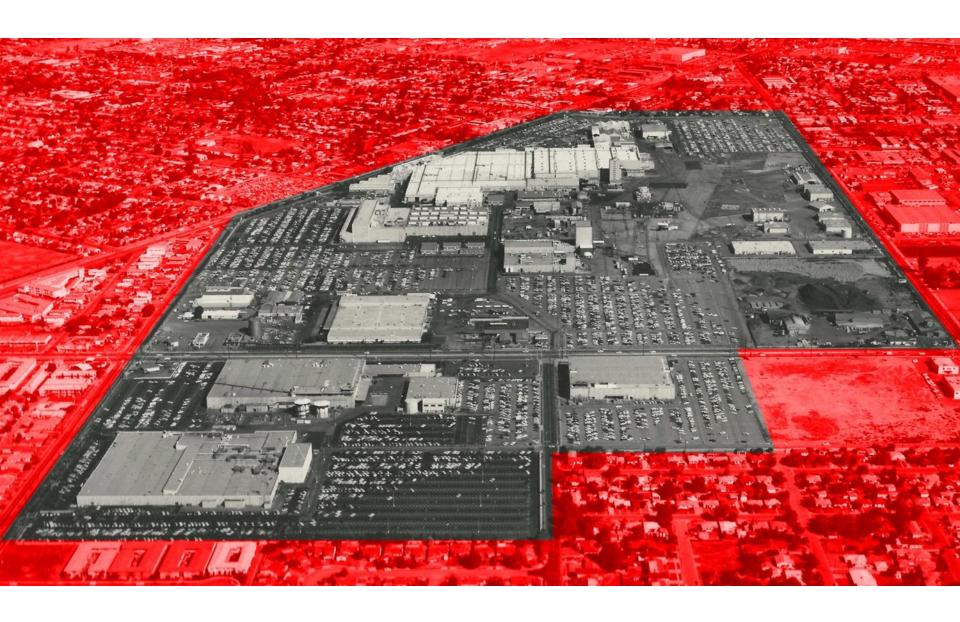
@SariOnScience

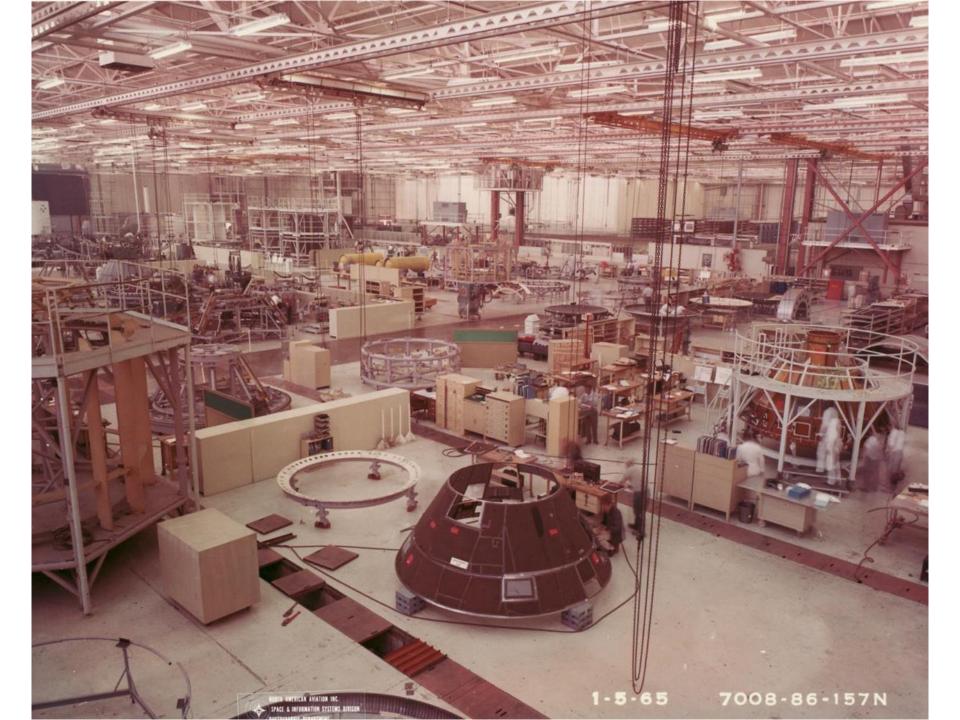


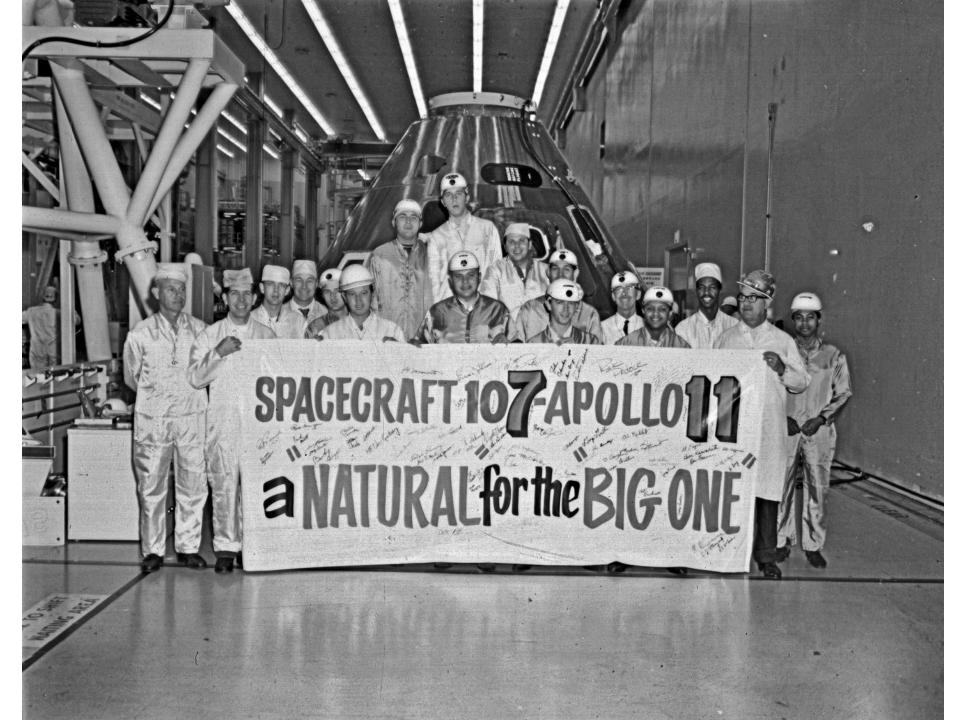
Apollo 11 50th Anniversary











APOLLO 11 50th Anniversary

7/16 LAUNCH DAY
7/17 SPACE FLASH!
LIVE PERFORMANCES OF APOLLO STORIES W/ CHALK REP

7/18 LUNAR PUB SCIENCE MEETUP

7/19 NASA DAY

7/20 BIG MOON LANDING CELEBRATION!

FREE ALL DAY EVENT!



Collaborating and Commemorating with NASA

"ONE GIANT LEAP" DISCOVERY MUSEUM

Celebrating Apollo 11 at Discovery Museum

- Bridgeport Symphony, A Season in Space
- Global Rocket Launch Day
- Launch Party
- Giant Leap Day
- Apollo Redux Apollo era Mission Control Console exhibit
- Apollo 17 Encapsulated Lunar Sample
- Solar System Mini Golf Course
- NISE Activities

Benefits to Discovery Museum

- Sponsorship Opportunities
 - Connecticut Space Grant, Pitney Bowes Foundation, Two Roads Brewery
- Partnerships and volunteers
- Over 700 visitors attending Giant Leap Day
- Apollo Redux, Cosmosphere, KS

Lessons Learned

- Worked Well
 - National attention and coordinated media coverage.
 - Lead up events
- For Next Time
 - Community forum or working group
 - Top down vs. bottom up
 - Curated resources
 - Brand management



Challenger Center Apollo Anniversary Activities

Denise Kopecky, Vice President, Education





Next Giant Leap

Community Engagement Days

Overview

For Grades 3-9 (but can be adapted for all ages)

The Next Giant Leap takes students through seven phases of a Lunar Exploration: preparing for launch, rocket launching, lunar landing, the Moon phases, lunar geology, lava tube exploration, and programming a lunar rover. Every station contains 1-2 activities for students to complete. They do not need to complete the stations in order and do not need to complete all stations.

Download our **Free** Challenger Rover App (for tablets only). Click the link below or search "Challenger Center" in the app stores.







Lessons & Activities

Implementation Guide

Prepare for Launch

Stomp Rocket

Lunar Lander

Moon Phases

Lunar Geology

Lava Tube Exploration

Lunar Rover



Flipped Classroom Resources



Classroom Lessons
Phases of the Moon
Eclipses

Lunar Brochure

The hands-on activities can be easily adapted to an activity on a cart for public engagement or used in outreach programs.



Engaging around the Apollo Anniversary

- Benefits of collaboration with Space STEM Forum:
 - Increased reach
 - Access to others' resources
 - Group planning and coordination
 - Build on existing NASA assets
 - NASA brand recognition





Table Group Discussion

How do you leverage and adapt existing NASA assets to meet the needs of museums and science Centers for either community engagement activities or student outreach?









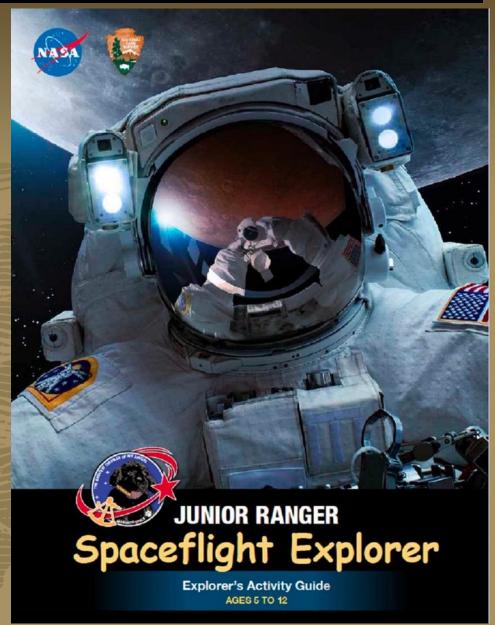
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NPS/NASA 2019 Collaborations

Apollo Moon Landing 50th Anniversary Events and Publications

NPS/NASA Junior Spaceflight Explorer Junior Ranger Book

- Collaborative activity and graphic design completed by both agencies
- Inside cover describes history of Lewis and Clark expedition and human exploration of space.
 Introduces Seaman, Jr., mascot for the booklet.
- Eight-page booklet targeted for 5-12 year old children
- Activities include STEM puzzles, mapping NPS/NASA sites, matching lunar gateway parts to model, ISS photos of NPS sites, sustainability practices.
- 50,000 copies printed- over 15,000 already distributed to kids.



NPS Apollo 50th Anniversary Events

- Special events held July 18-21 weekend at more than 10 NPS sites across the country.
- Events included special appearances by astronauts, Junior Ranger activities, storytimes, presentations by NASA scientists, night sky programs, movie and documentary screenings, rocket launches, historical programs on space race and lunar landings, and book signings.
- Connections made between NPS and NASA collaborations for astronaut training, geological scientific studies, historical connections between NPS sites and aviation/spaceflight/NASA interactions.

Craters of the Moon Event



Lunar Rover at Craters of the Moon

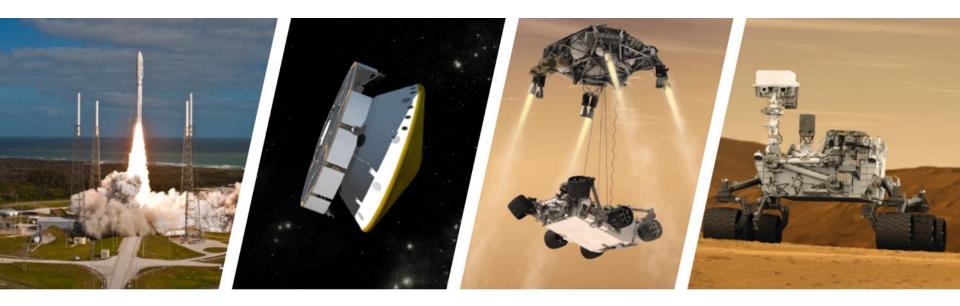


NPS/NASA Web presence

- Space STEM site
- Lewis and Clark TrailSeaman, Jr. blog
- NPS history of aviation/spaceflight
- Night Skies
- Junior Ranger
- NASA science in NPS units





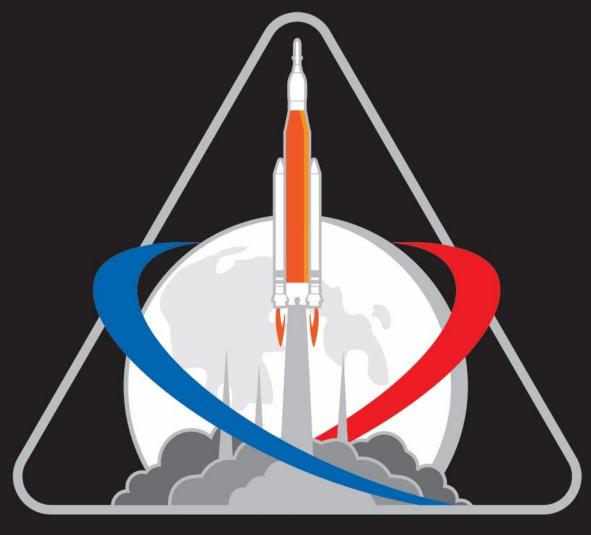


Launch:

July 17 - August 5, 2020

Landing:

February 18, 2021



ARTEMIS I

Breakout Time



Camps and k-12 visits
 Carlson

Engaging makerspaces and media
 Custer

Events to engage local community/partners
 Dickow

Suites of activities using NASA assets Kopecky/Rosenblum