

# Tools and Training for Starting a Successful Space and Earth Science Virtual Public Program

Darrell Porcello

Matt Jorge

Alexandra Jackson

Yesenia Perez

Amelia Chapman

Rosamond Kinzler

ASTC 2020

Preconference Intensive

October 16, 2020





## Workshop Agenda

### 1. Introduction (15 to 20 min)

Darrell Porcello, CCM & NISE Net

Matt Jorge, CCM & NISE Net

### 2. Resource discovery presentations (40 min)

Alexandra Jackson, Sciencenter & NISE Net

Yesenia Perez, NASA Universe of Learning/STScI

Amelia Chapman, NASA Museum Alliance/JPL

Rosamond Kinzler, OpenSpace/AMNH

### 3. Q&A on presentations (10 min)

### 4. Breakout Groups (20 to 30 min)

Each speaker discusses one virtual learning scenario with breakout group

### 5. Report and wrap-up (10 to 20 min)

All session resources & links

**[bit.ly/astc2020space](https://bit.ly/astc2020space)**



**DO YOU  
WANT TO  
PLAY A  
GAME?**

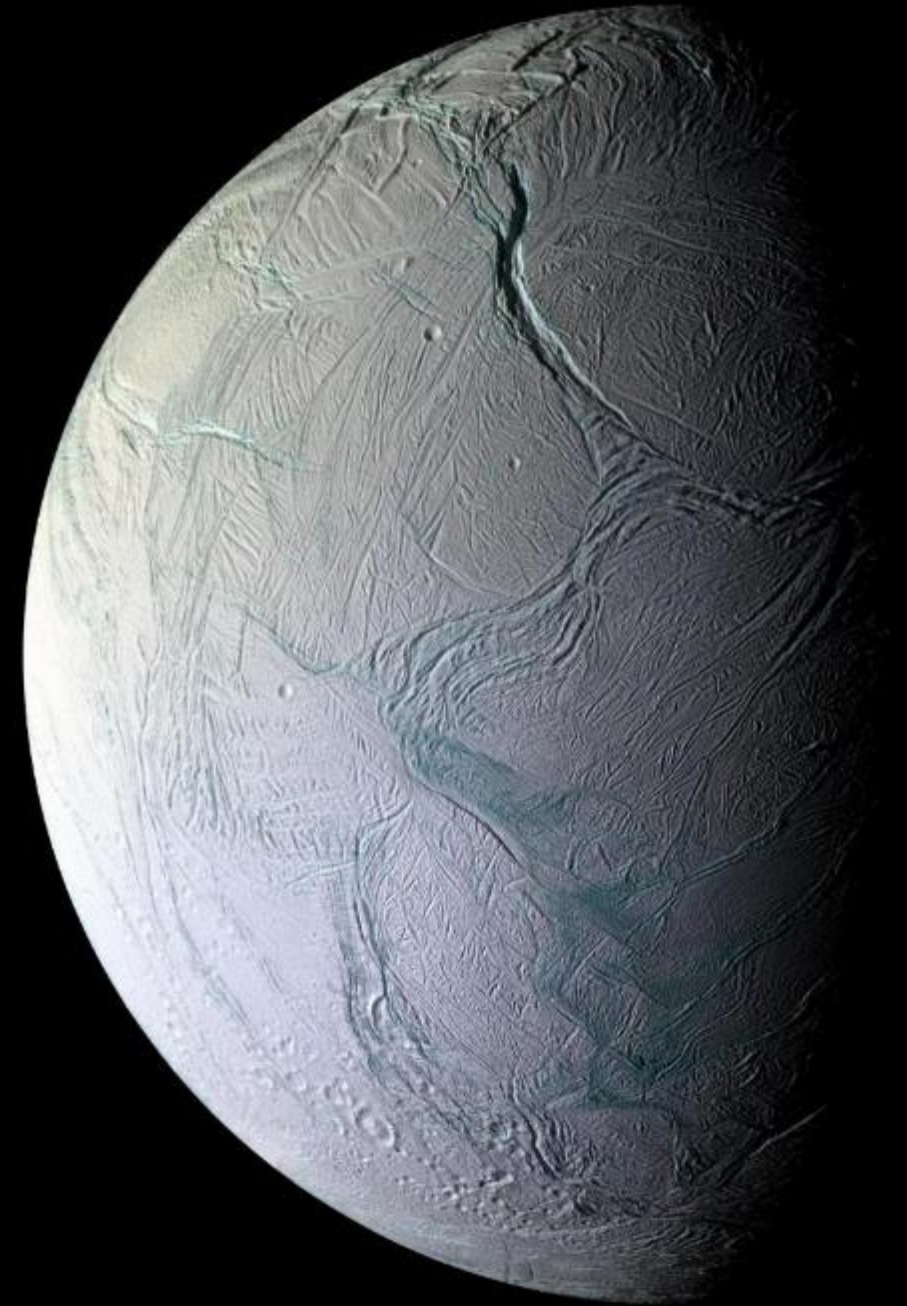


# Great Minds Think Alike



# Great Minds Think Alike Rules

- One player is the **guesser** (moved to breakout room). Their job is to correctly identify the space object the rest of the players will describe.
- The rest of the players are **describers**. They will think of **one word** to describe the space object and write it on a piece of paper.
- If two or more **describer's** words are identical, they cancel out and put their word down—so try to make unique picks!
- The **guesser** will use the remaining available hints to guess the object.





# General Online Engagement Tips



## The best way to engage learners online is to be...engaging

- Learners are looking to you to set the tone—be enthusiastic, exciting, and entertaining.
- Have fun with your workshop.
- Use dynamic slides & interactives.
- Encourage camera use.

## Create a supportive learning environment

- Humanize yourself & make time for personal introductions.
- Briefly create group norms together.
- Make it social, leave time for conversation.



# General Online Engagement Tips



## **Expect the unexpected and remain flexible**

- Technology will fail. Have a backup plan for when this happens.
- If possible, have an extra staff member as chat and tech moderator.

## **Set clear expectations**

- Provide a roadmap of the workshop- when will learners be expected to participate? When will they be expected to listen?
- Create the expectation of rich conversation & collaboration during breakout room times.
- Encourage & facilitate opportunities for sharing & commenting often.



# NATIONAL INFORMAL STEM EDUCATION NETWORK



# Explore Science: Earth & Space 2020 Toolkit



**Part A – shipped  
January 2020**

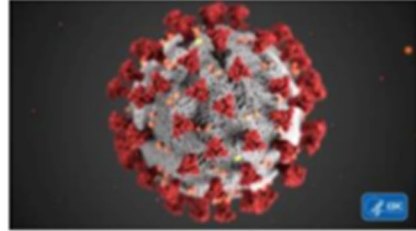


**Part B – shipping later in 2020  
includes immersive Moon  
adventure game**

# COVID-19 NISE Network Resources

## Coronavirus Museum Resources

We wanted to make sure you are aware of these resources in this rapidly changing situation:



- Association of Children's Museum (ACM)  
<https://www.childrensmuseums.org/about/acm-in-the-news/307-museum-response-covid-19astc>
- Association of Science and Technology Centers (ASTC), including educational resources, policy and advocacy updates and tools, and business and operations resources  
<https://www.astc.org/coronavirus/>
- Association of Science and Technology Centers (ASTC) Educational Resources  
<https://www.astc.org/coronavirus/educationalresources/>

## NISE Net Online Workshop

NISE Network Partner Reopening Strategies PART 1  
Tuesday, May 26, 2020



Welcome!

Today's presenters are:

- Brad Henning, Museum of Life and Science, NC
- Laura Huerta Migus, Association of Children's Museums
- Aaron Pan, Museum of Texas Tech University
- Diane LaFollette, Mid-America Science Museum
- Meagan Downey, Robinson Nature Center



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 Chat Box at any time throughout the webinar or use the raise your hand function in the participants list and we'll unmute your microphone.

Today's discussion will be recorded and shared on nisenet.org at: [nisenet.org/events/online-workshop](https://nisenet.org/events/online-workshop)

Online Workshop: NISE Network Partner Reopening Strategies PART 1

This column is only visible to you:

See video analytics

- Museum reopening resources (ACM, ASTC, AZA, IMLS, Dome Dialogues and more)
- Coronavirus resources (CDC, NIH, Johns Hopkins and more)
- NISE Network Online Workshops
- Viruses and Coronavirus videos and activities for the public
- Resources for digital public engagement
- Evaluation and research resources

<https://www.nisenet.org/coronavirus>

<https://www.nisenet.org/athome>



[nisenet.org/athome](https://nisenet.org/athome)





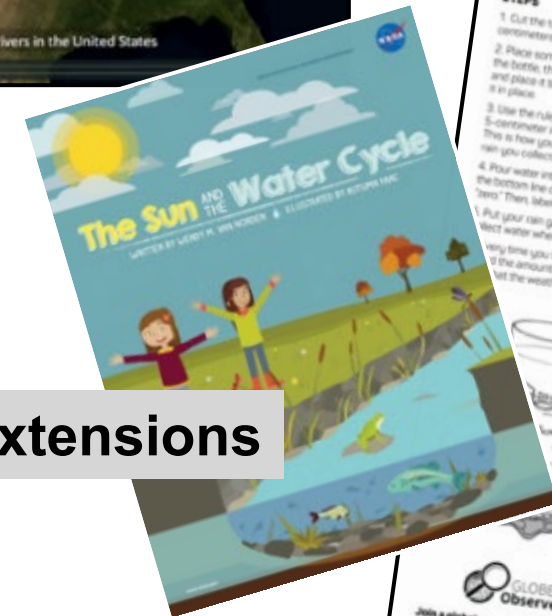
# Collections of At-Home & Online Experiences



**Toolkit Connections**



**Video with content**



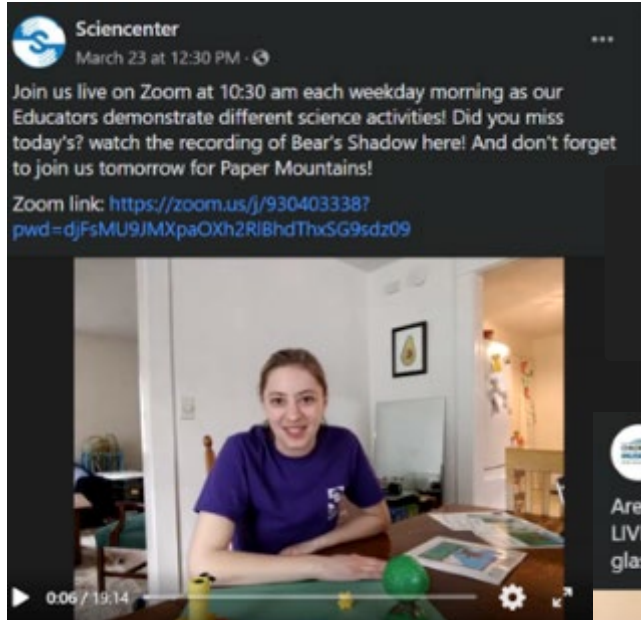
**Extensions**



**Take-away/family activity**



# Network Partner Adaptations



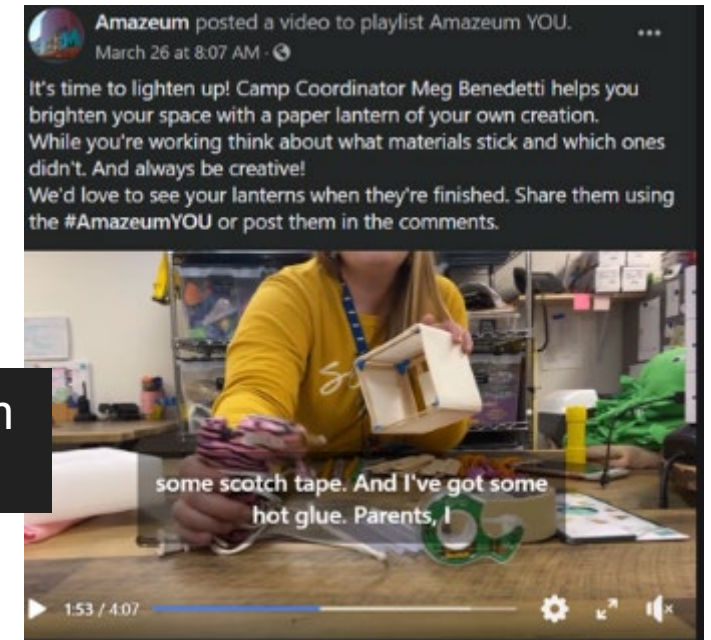
At-home  
with activity  
materials



At-home with  
household  
materials



Recorded  
videos



At-museum  
spaces

# Zooming In On Our Strengths

## Local and live



**Articulating an audience:** Touch point for members, local community and longtime supporters to stay connected to the museum

### Choosing a platform: Zoom

- Accessibility for our audience
- Privacy controls and live chat functions
- Ability to record sessions

**Selecting content:** Everyday or no materials

### Publicizing our efforts

- Facebook, member emails
- Community partners

# Online Experimentation: Verified Content

**NISE**  
NATIONAL INFORMAL  
STEM EDUCATION  
NETWORK

 **Sciencenter**



# Get Involved

Learn more and access the  
NISE Network's online digital resources  
[nisenet.org](https://nisenet.org)



**Subscribe to the  
monthly newsletter**  
[nisenet.org/newsletter](https://nisenet.org/newsletter)



**Continue the  
online  
conversation**  
[bit.ly/nisenetryver](https://bit.ly/nisenetryver)

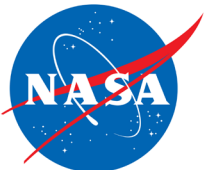


**Follow NISE Net on social networking**  
[nisenet.org/social](https://nisenet.org/social)



# Thank You

**NISE**  
NATIONAL INFORMAL  
STEM EDUCATION  
**NETWORK**



Partner



This material is based upon work supported by NASA under cooperative agreement award number NNX16AC67A and 80NSSC18M0061. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).



# Resources For Creating A Virtual Program





# The Big Jump to Virtual

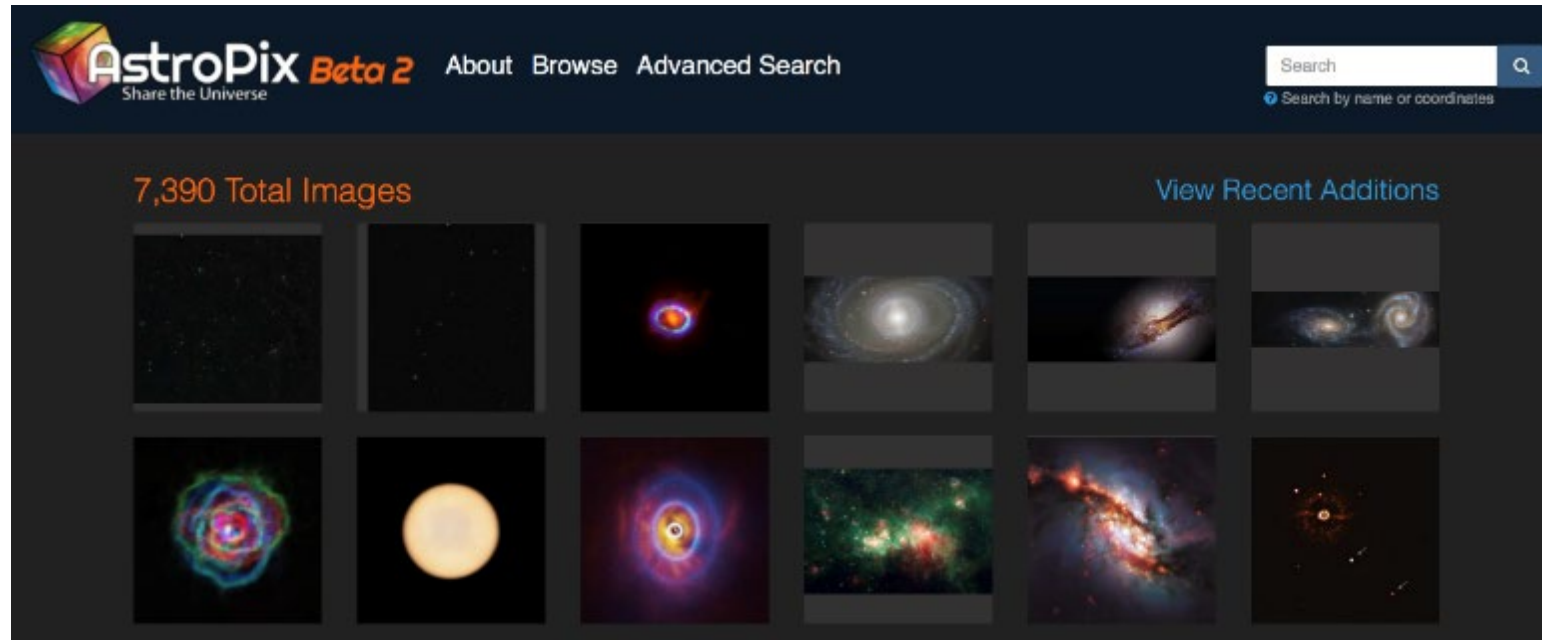




# Data Tools & Multimedia Resources

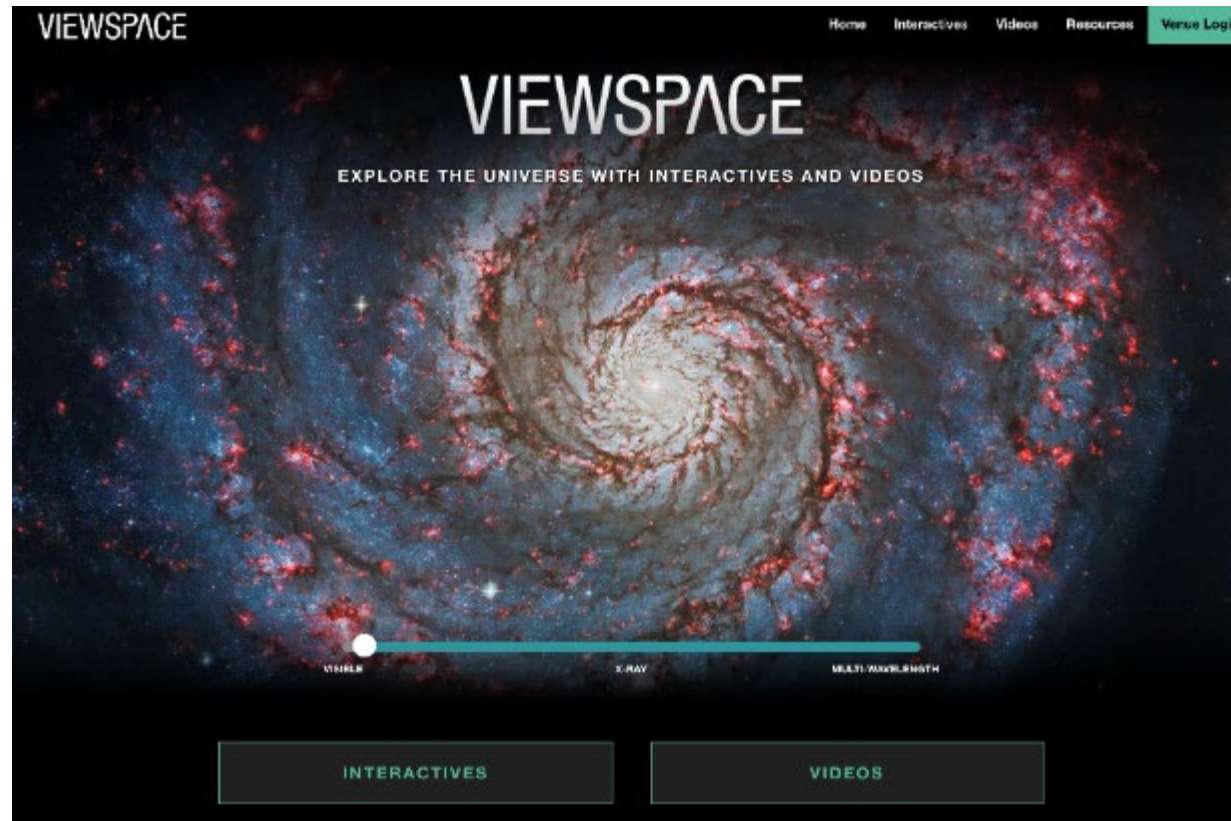


# AstroPix



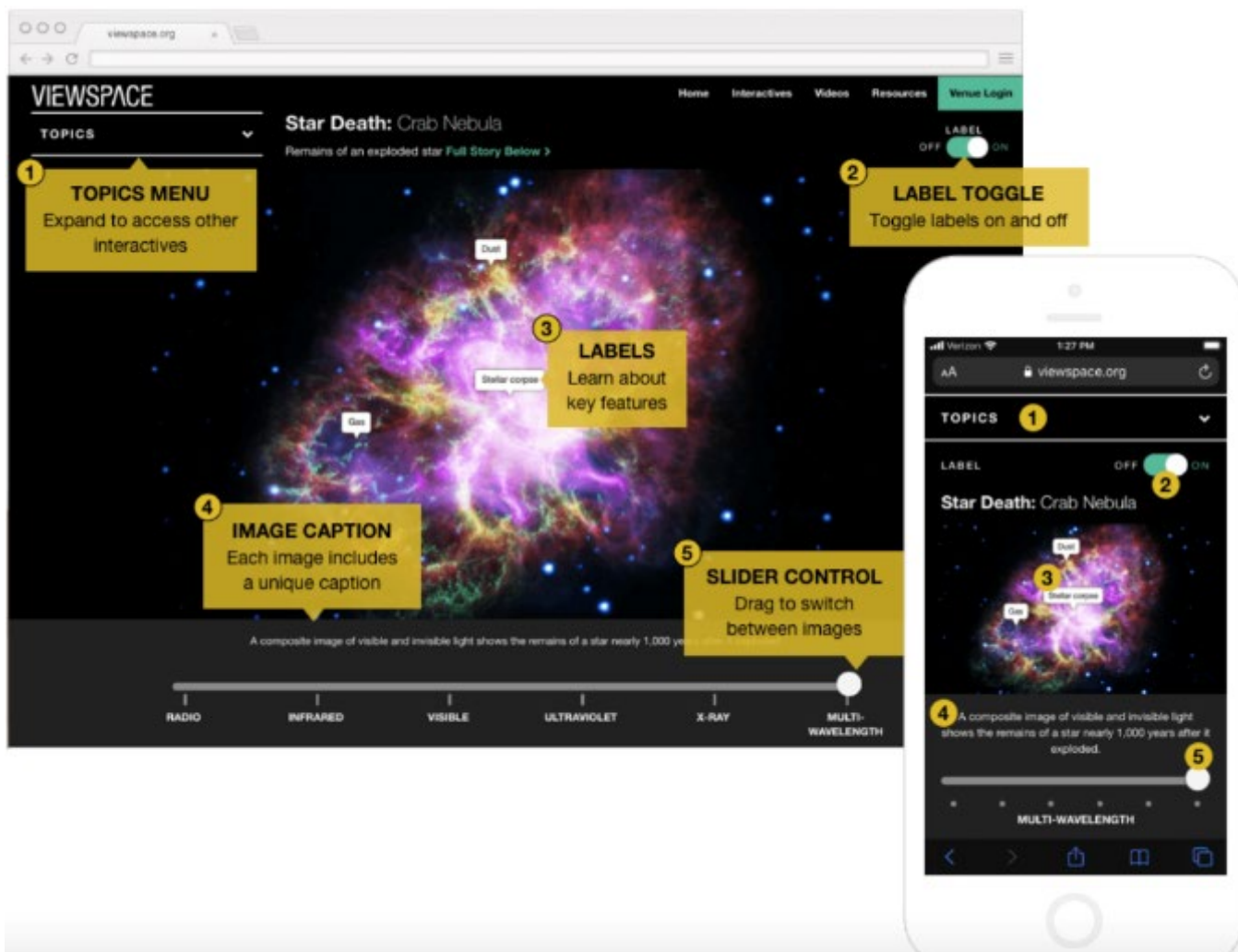
<https://astropix.ipac.caltech.edu>

# ViewSpace



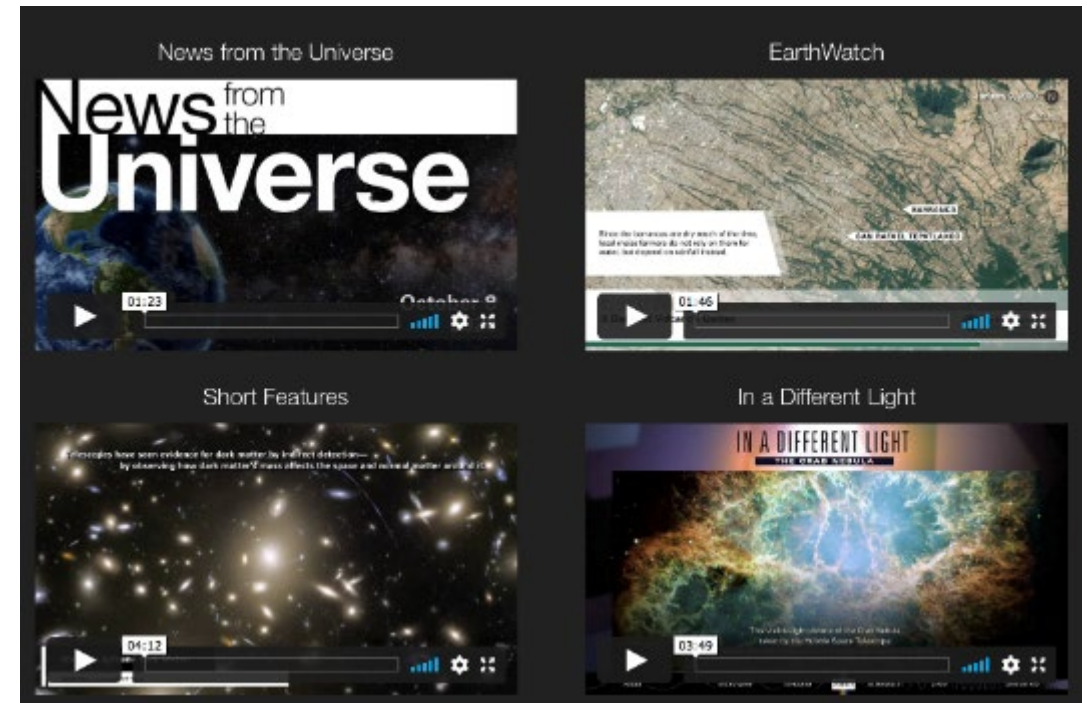
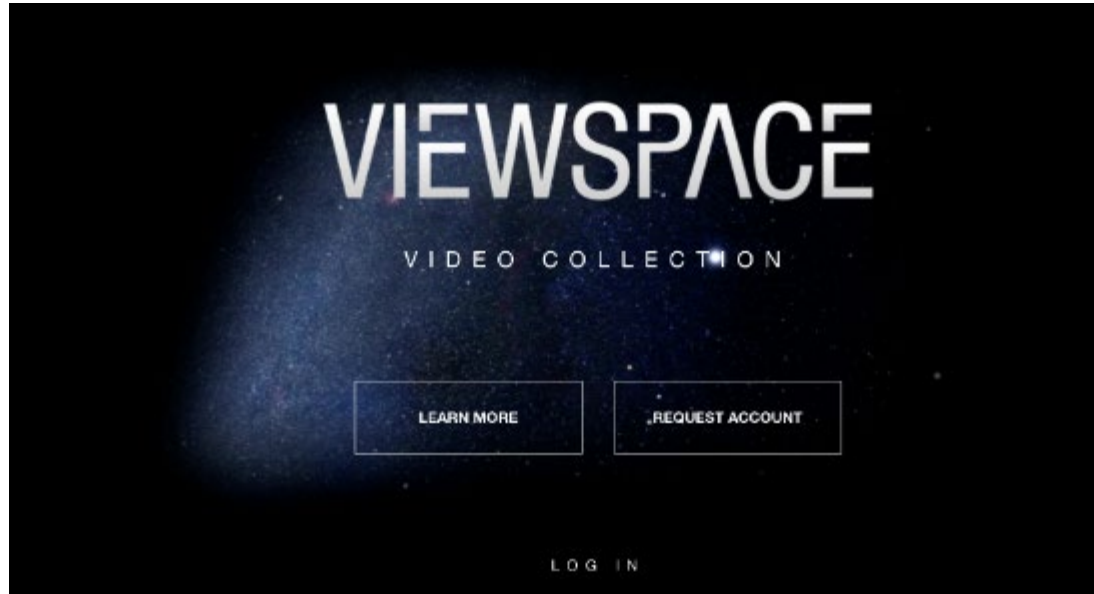
<https://viewspace.org>

# ViewSpace: Interactives



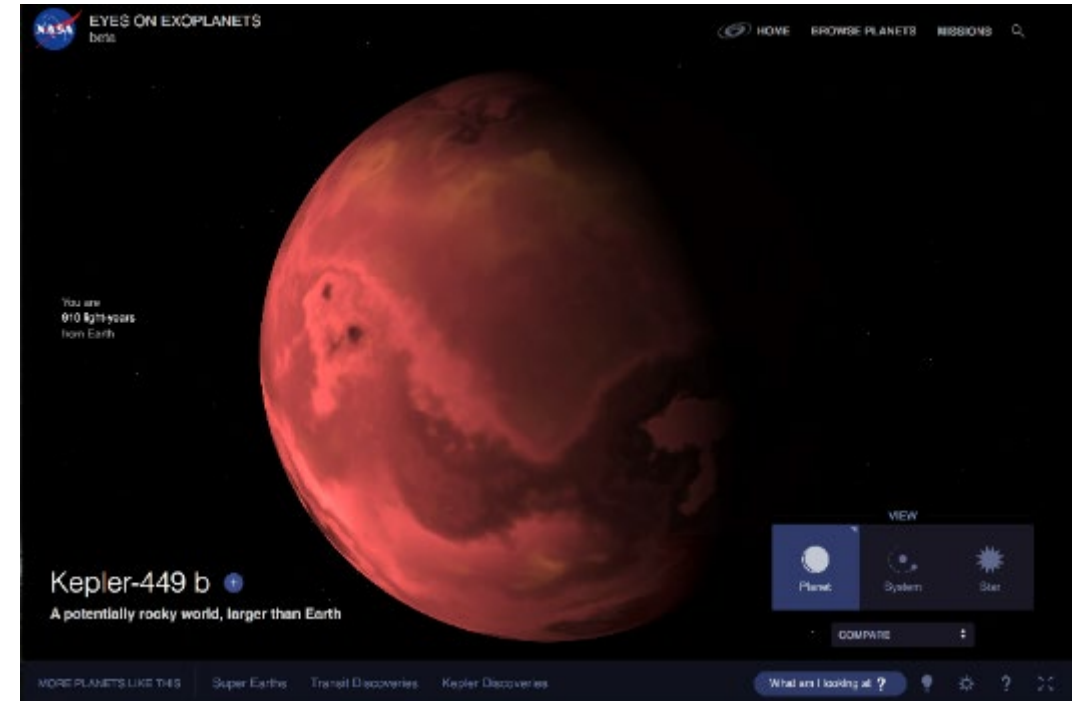
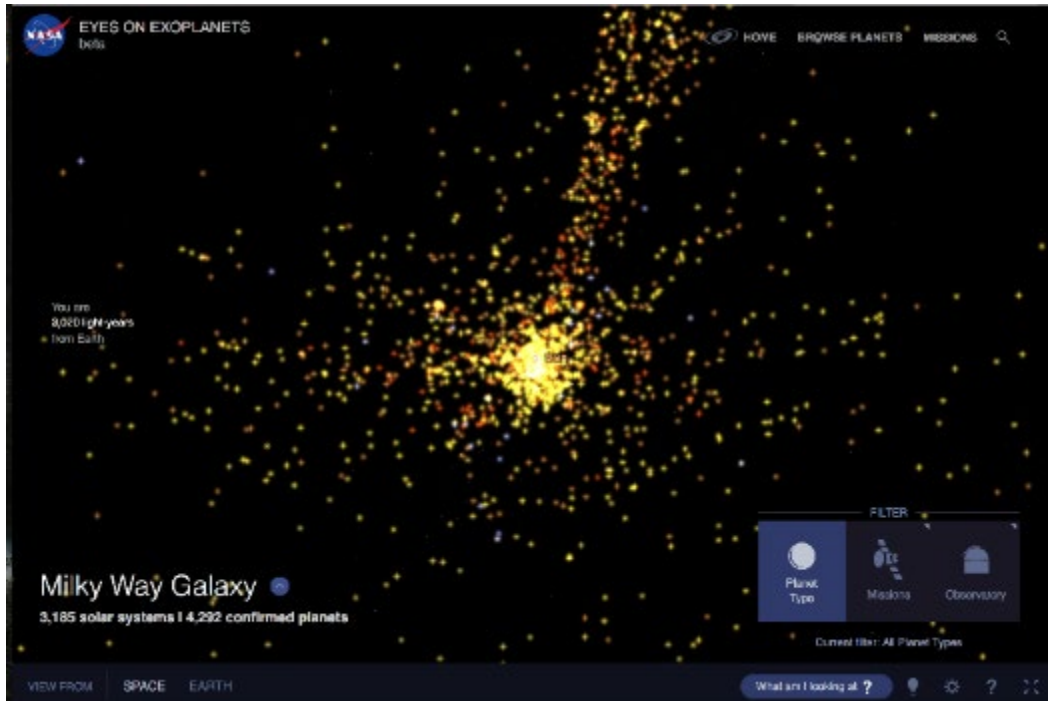
TOPICS	
STAR DEATH	+
STAR FORMATION	+
VARIABLE STARS	+
DETECTING OTHER WORLDS	+
EXOPLANET DIVERSITY	+
FORMS OF LIGHT	+
GATHERING LIGHT	+
SEEING FARTHER	+
INTERACTING GALAXIES	+
DARK MATTER	+

# ViewSpace: Video Collection

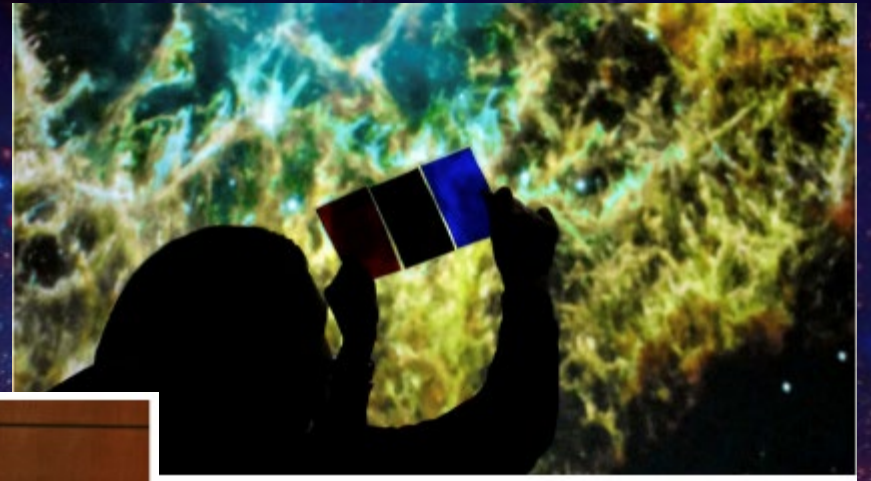




# Eyes on Exoplanets



- <https://exoplanets.nasa.gov/eyes-on-exoplanets/#/>



Informal Learning Network



# Informal Learning Network

- Adaptable program models
- New set of program models that feature virtual learning and engagement in a COVID world
- Program models provide:
  - Goals
  - Target audiences
  - Recommendations
  - List of UoL resources
  - Curriculum / activity guides

POPULAR TAGS:







 **ask the ASTRONOMERS** **live!** | [universeunplugged.org](https://universeunplugged.org)

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***Careers in Planet Hunting***

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HOSTED BY: THIS MONTH'S GUEST ASTRONOMERS:



PHIL LAMARR



KNICOLE COLÓN



FARISA MORALES

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**TUNE IN: SEPTEMBER 15<sup>th</sup> 4:30PM (ET) 1:30PM (PT)**

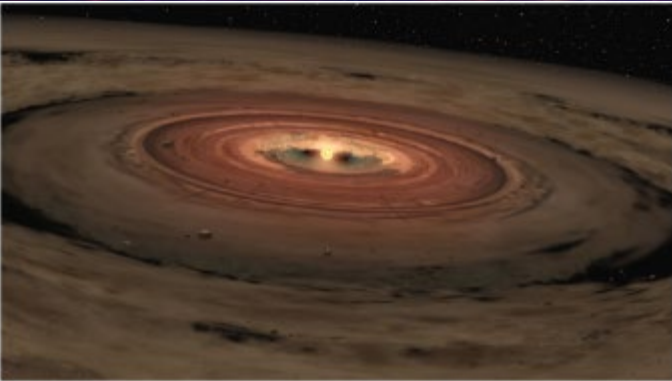
# Universe Unplugged





## Extreme Astronomy: The Wild Side of Space

BLACK HOLES, STELLAR EVOLUTION, NEBULA,  
BINARY STARS



## Understanding the Origins and Diversity of Planets

SOLAR SYSTEM, EXOPLANETS, PLANET FORMATION



## Women in Astronomy: The Past Inspires the Future

STEM, GIRLS STEAM AHEAD



Credit: ESO/L. Calçada

## The Magnetic Universe

STELLAR DEATH, GALAXY EVOLUTION, MAGNETIC  
FIELDS



## NASA's Exoplanet Detection: the Missions and Women Involved

EXOPLANETS

# Science Briefings



# Thank You!



**Learn more at: [www.universe-of-learning.org](http://www.universe-of-learning.org)**

This presentation is based upon work supported by NASA under award number NNX16AC65A. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Aeronautics and Space Administration.





**NASA's Museum Alliance** is an active community of practice that provides access to NASA resources for informal educators.



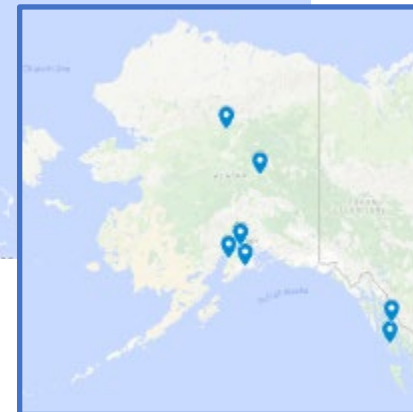
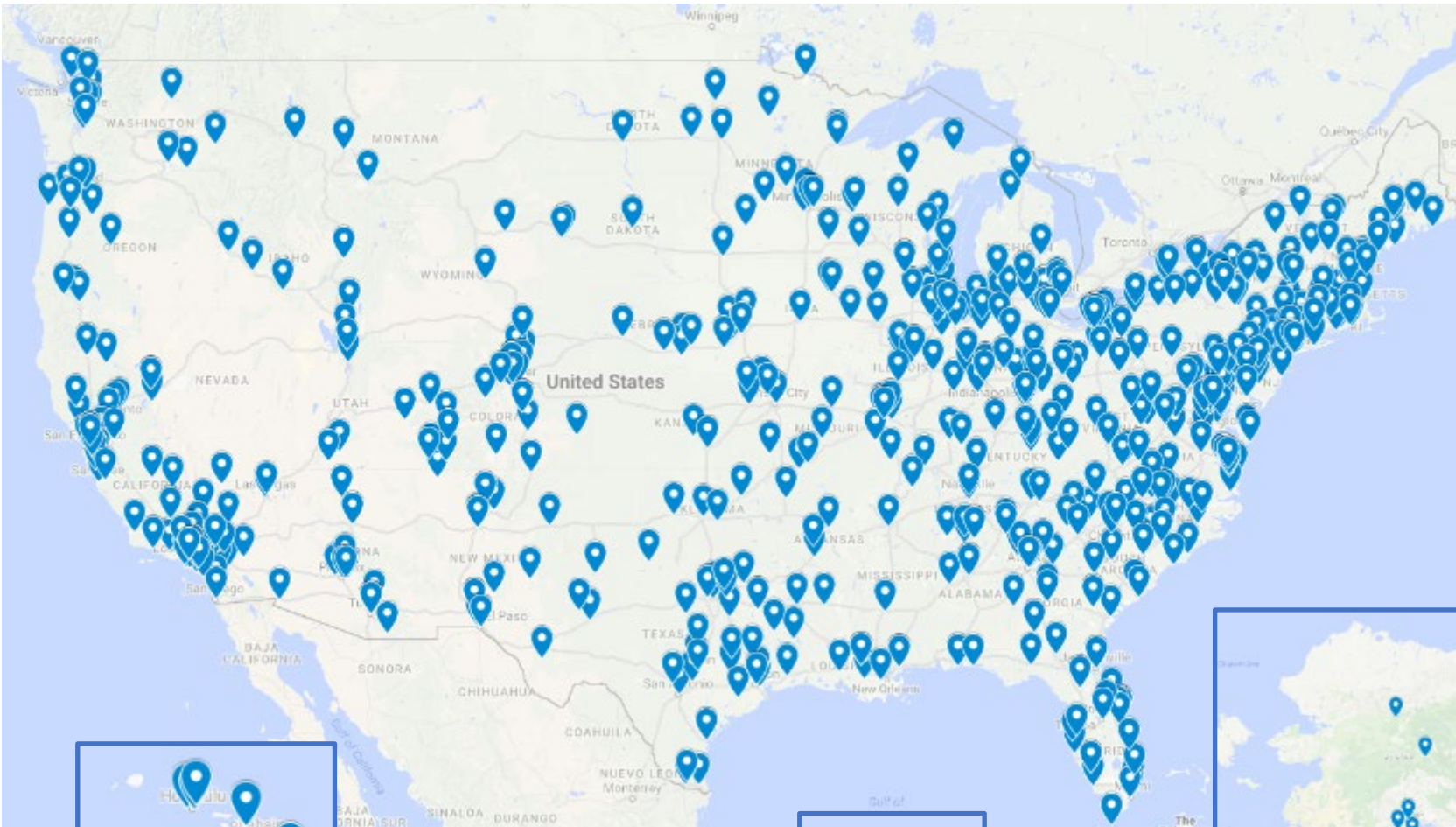
# NASA's Museum Alliance

## 2020 Membership

- All **50** states, DC, Puerto Rico
- **41** other countries
- Over **2600** professionals
- Over **1300** organizations  
(1200+ US, 184 int'l)

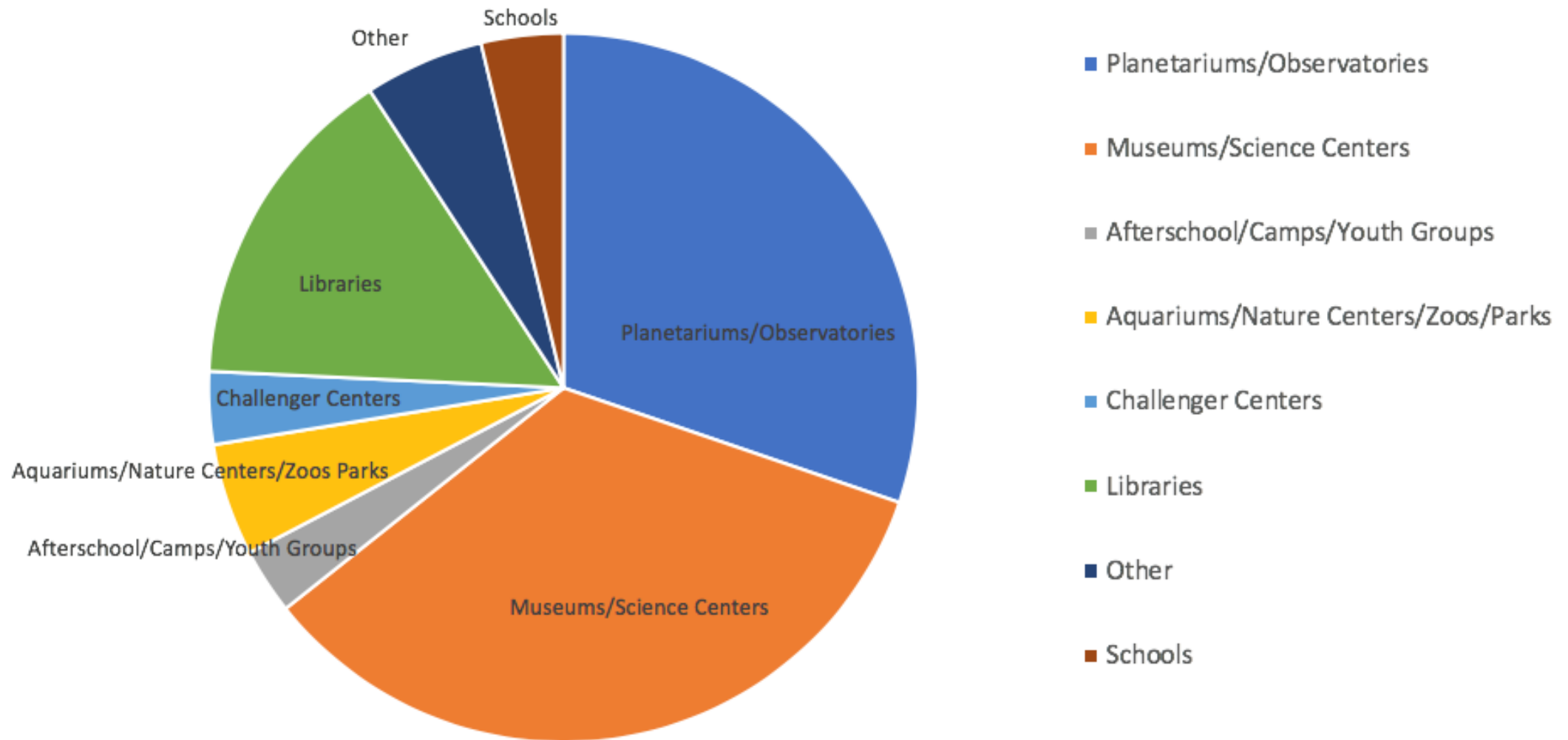
### *International:*

Argentina	Italy
Australia	Japan
Austria	Malaysia
Belgium	Mauritius
Brazil	Mexico
Canada	Monaco
Chile	Netherlands
Colombia	Norway
Costa Rica	New Zealand
Czech Republic	Philippines
Denmark	Portugal
Dominican Rep.	Romania
Finland	South Africa
France	South Korea
Germany	Spain
Guatemala	Switzerland
Hungary	Thailand
Iceland	Turkey
India	Turks & Caicos
Ireland	Ukraine
	United Kingdom



# Organizational Membership (US)

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# NASA's Museum Alliance

- ✓ Direct **assistance** to members
- ✓ Member **website** of searchable resources
- ✓ **Calendar** of mission events, deadlines, trainings, virtual events, anniversaries, STEM-themed days, etc
- ✓ Collaborative **chat** forum
- ✓ Regular live **briefings** by NASA experts
- ✓ Weekly **newsletter**

The screenshot displays the NASA Museum Alliance website. At the top, the NASA logo and "National Aeronautics and Space Administration" are visible. A search bar and a "Welcome Amelia's Test Account!" message are in the top right. The main banner features the "ARTEMIS MOON POD ESSAY CONTEST" with a graphic of astronauts on the Moon. Below the banner, a sidebar on the left lists navigation options: Home, Team Chat, My Account Settings, Member Events!, Members, Telecons, Calendar, Resources, Competitive Program, Aeronautics Research, Human Exploration and Operations, Science, and Space Technology. The main content area is divided into four columns: "JOIN OUR COMMUNITY", "MEET OUR COMMUNITY", "EVENTS IN YOUR COMMUNITY", and "COMPETITIVE PROGRAM". Each column contains descriptive text and a "More>" link. At the bottom, a "Featured Events" section highlights three upcoming events: "New 'What's Up' Video Available", "Solar System Ambassadors Program Accepting Applications", and "Commercial Crew Children's Art Contest - Now Open".

NASA National Aeronautics and Space Administration

Welcome Amelia's Test Account!

Search

## Museum Alliance

Home

Team Chat

My Account Settings

Member Events!

Event Submission Form

My Events / Report Impact

Members

Telecons

Calendar

Resources

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Aeronautics Research

Human Exploration and Operations

Science

Space Technology

### ARTEMIS MOON POD ESSAY CONTEST

Artemis Moon Pod Essay Contest

K-12 students are invited to imagine they will lead a crew of astronauts on a one-week expedition to the Moon's South Pole, and then write about it.

JOIN OUR COMMUNITY	MEET OUR COMMUNITY	EVENTS IN YOUR COMMUNITY	COMPETITIVE PROGRAM
The Museum Alliance brings current NASA science and technology to free-choice learners through professional development of informal education providers and access to NASA staff and materials. <a href="#">More&gt;</a>	Over 2,000 professionals at more than 1,000 U.S. museums, science centers, planetariums, NASA Visitor Centers, Challenger Centers, observatories, parks, libraries, camps, and youth-serving organizations are partners in the Museum Alliance. <a href="#">More&gt;</a>	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. <a href="#">More&gt;</a>	NASA Teams Engaging Affiliated Museums and Informal Institutions (formerly CP4SMPVC) aligns with NASA and Federal science, technology, engineering, and math (STEM) education goals. <a href="#">More&gt;</a>

### Featured Events

<b>New "What's Up" Video Available</b> Thursday, October 1, 2020	<b>Solar System Ambassadors Program Accepting Applications</b> Thursday, October 1, 2020	<b>Commercial Crew Children's Art Contest - Now Open</b> Friday, October 2, 2020

# Resources

 National Aeronautics and Space Administration

Welcome Amelia's Test Account!

## Museum Alliance

Search

Home

Team Chat

My Account Settings

Member Events!

Event Submission Form

My Events / Report Impact

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Calendar

Resources

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Human Exploration and Operations

Science

Space Technology

### Earth Day NASA Resources for Informal Education



Last updated 4/22/2020 with [Earth Worldview](#), [NASA eClips resources](#), [Earth Now](#), [SVS Earth Day Gallery](#), [NASA NeMO-Net Citizen Science](#) , and [Climate Kids Scrolling Feature for Earth Day](#)

Earth Day was first celebrated on April 22, 1970; NASA's observation of the Earth Day golden anniversary began on March 3 with a "50-Day Countdown" of daily social media posts highlighting many of the agency's Earth images and environmental projects. All of these posts are available on a [blog](#) updated daily on NASA's [Earth Day website](#), which also includes a [toolkit](#) of activities for students and families. New content will be posted to the site beginning Monday, April 13. The [NASA Earth Facebook](#) account and [@NASAEarth](#) on Twitter and [Instagram](#) also will have special content through Earth Day.

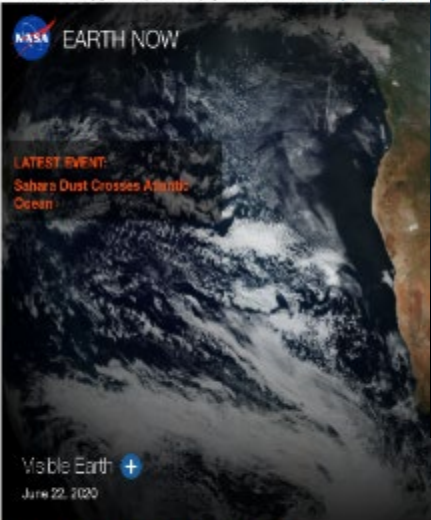
# Resources

Earth 101

- Meet your home planet
- Earth stories, games, crafts for kids K-4
- Find more Earth Science at <https://climate.nasa.gov/>
- See our NASA Earth Science 101 telecon for members. Alliance our Earth Science Telecons, like this fan favorite about ARIA to NASA Earth Science is saving time, money, and lives in disaster

Featured

- Earth Day 2020 - For members, read more about the 50th Anniversary (this campaign is postponed indefinitely)
- See the #EarthDayAtHome 2020 campaign and resources.
- Earth Now, new browser-based interactive Earth. Embed it into a single line of code <iframe allowfullscreen="" frameborder="0" src="https://eyes.nasa.gov/apps/earth/W/" width="500"></iframe> \*Source\* code, and note you can customize height and width, widths are supported), or simply share the link: <https://eyes.nasa.gov/>



NASA EARTH NOW

LATEST EVENT:  
Sahara Dust Crosses Atlantic Ocean

Visible Earth +  
June 22, 2020

- NASA eClips Earth Day 2020 resource list.
- Trees Challenge 2020 (postponed) - GLOBE Observer's month-long citizen science challenge has been postponed. Watch the Observer [website](#) for when it might get

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Members

Telecons

Calendar

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Earth Day NASA Resources for Informal Education



Earth Day  
is everyday at NASA

Last updated 4/22/2020 with [Earth Worldview](#), [NASA eClips resources](#), [Earth Now](#), [SVS Earth Day Gallery](#), [NASA NeMO-Net Citizen Science](#), and [Climate Kids Scrolling Feature for Earth Day](#)

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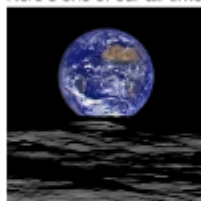


# Resources

- [NASA eClips Earth Day 2020 resource list](#).
- [Trees Challenge 2020](#) (postponed) - GLOBE Observer's challenge has been postponed. Watch the Observer [web](#) reinstated, and enjoy the [toolkits](#) of activities, some of which are indoors.

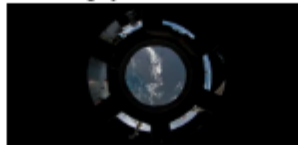


- For libraries - the [STAR Net Our Planet Earth Campaign](#)
- [Celebrating Earth's Beauty](#) - Looking for Earth images? kept here. You can just print out your favorites, and may Alternatively, you can use the official NASA ebooks "Earth Here's one of our all-time favorites from the gallery, an E



## Activities

- [Our Home with NASA - Earth Science Curriculum and P](#)
- [How to Read a Heat Map](#) is a complete lesson with NGSS science lessons
- [NASA NeMO-Net Citizen Science](#) - Mapping Coral Reefs
- [Image Detectives](#) is a citizen science project to help catalog NASA Imagery of Earth.



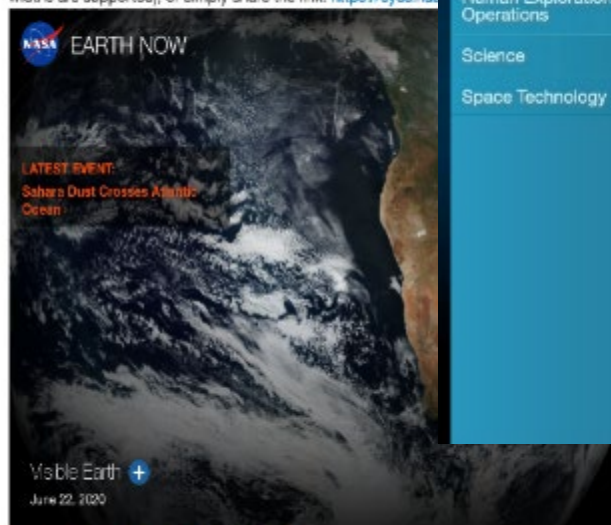
- Here's a great and easy [Earth Day activity](#) of simply letting people truly observe Earth

## Earth 101

- [Meet your home planet](#)
- [Earth stories, games, crafts for kids K-4](#)
- Find more Earth Science at <https://climate.nasa.gov/>
- See our [NASA Earth Science 101](#) telecon for [members](#). Alliance our Earth Science Telecons, like this fan favorite about [ARIA](#) to NASA Earth Science is saving time, money, and lives in disaster

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Search

Home

Team Chat

My Account Settings

Member Events!

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My Events / Report Impact

Members

Telecons

Calendar

Resources

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# Calendar

- Searchable/sortable by Topic and Type
- Easy to subscribe, share
- Available to public
- Featured events on homepage

June 2020

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Search

Topics

☒ Aeronautics

☒ Astrophysics

☒ Comets/Asteroids

☒ Earth-Sun-Moon

☒ Human Spaceflight

☒ Mars

☒ Our Sky

☒ Our Solar System

☒ Other

Select: All, None

Event Type

☒ Annual/Historic

☒ Celestial Event

☒ Mission Event

☒ Online

☒ Presentation/Interaction

☒ Registration Deadline

Select: All, None

Mission Event Type

[All Values]

Online Event Type

[All Values]

Celestial Event Type

[All Values]

Please select your time zone.

(GMT-08:00) Pacific Time (US & Canada)

JUN

JUL

AUG

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR

MAY

Details

Table

Week

Month

Subscribe

National STEM Innovation Partnership Solicitation FAQ Webinar

Thu, June 25, 2020 | 12:30 – 1:30pm PDT

Join the webinar to hear about how NASA's Office of STEM Engagement is looking to increase collaborators during the 2020-21 school year. Paragon TEC, as a support service contractor to NASA, is soliciting proposals from eligible organizations, corporations, or public and private institutions including 1) STEM Networks or 2) STEM Influencers.  
More details and info [on the site](#). Click here for the [webinar link](#).  
Event Type: Online Presentation/Interaction  
Online Event Type: Professional Development  
[ADD TO CALENDAR](#) | [FORWARD TO FRIENDS](#) | [OTHER EVENT ACTIONS](#)

NASA Educator Professional Development Workshop

Thu, June 25, 2020 | 2 – 3pm PDT

NASA STEM: Teaching Problem Based Learning with Robotics and Coding  
Explore STEM Problem Based Learning with hands-on and inquiry based learning activities related to robotics and the engineering curriculum. The activities and NASA educational websites introduced will provide the educators new curriculum ideas to assist in reaching the NGSS and Common CORE learning outcomes standards. The webinar will include: "acting out science" kinesthetic (PBL) problem based learning activities. Learn how to code the Sphero (a small spherical robot) to solve the engineering and math problem of flying in formation.  
Event Type: Online Presentation/Interaction  
Online Event Type: Professional Development  
[ADD TO CALENDAR](#) | [FORWARD TO FRIENDS](#) | [OTHER EVENT ACTIONS](#)

'NASA STEM Stars en Español': Atmospheric Scientist Clara Orbe

Fri, June 26, 2020 | 12pm PDT

"NASA STEM Stars en Español" is joined by atmospheric scientist Clara Orbe for a webinar conducted in Spanish. Learn how the work being done by Clara today to understand large-scale atmospheric dynamics will help us respond to climate change in the future. Join the chat and ask your questions!  
Event Type: Online Presentation/Interaction  
Online Event Type: Informal Social Media Gathering  
[ADD TO CALENDAR](#) | [FORWARD TO FRIENDS](#) | [OTHER EVENT ACTIONS](#)

25th Anniversary (1995), STS-71 Launch (Space Shuttle Atlantis, 1st Mir Docking)

Sat, June 27, 2020

Commander Robert L. Gibson, Pilot Charles J. Precourt, Mission Specialists Ellen S. Baker, Bonnie J. Dunbar, Gregory B. Jarvis. More [here](#).  
Event Type: Annual/Historic  
[ADD TO CALENDAR](#) | [FORWARD TO FRIENDS](#) | [OTHER EVENT ACTIONS](#)

# Collaborative Chat

- Easy communication with other educators
- ~400 registered users
  - 17% of membership
- Greater transparency, better customer service for members
- Free, unlimited

The screenshot displays a web-based chat application. On the left is a dark blue sidebar with navigation options: 'Search', 'Notifications' (with a red badge showing '5'), 'Personal Tasks', 'FORUMS' (with expand/collapse icons), 'Teams' (with a red badge showing '1'), and 'PEOPLE' (with expand/collapse icons). Under 'FORUMS', 'Earth Day 50th Annivers...' is selected. The main chat area is titled 'Earth Day 50th Anniversary' and has tabs for 'CHAT', 'TOPICS', and 'TASKS'. The chat history shows a message from 'Corrie' on Thursday, April 16th at 7:29am, announcing virtual activities for Earth Day and linking to the American Museum of Natural History's calendar. Below the text is a large image of Earth from space. A card titled 'EarthFest: April 22, 2020 | American Museum of Natural History' is also visible. A second message from 'Jeff Nee' at 8:05am thanks Corrie and shares a link to a NASA poster, accompanied by a small image of a tree. At the bottom is a message input field with a 'Send' button.

Museum Alliance  
@amelia.j.chapman

Search

Notifications 5

Personal Tasks

FORUMS

Apollo 50th Conversatio...

Exhibits, Models, and Lo...

General Conversation

Earth Day 50th Annivers...

Explore Science: Earth &...

Tasks and Requests

TEAMS

PEOPLE

Task


Earth Day 50th Anniversary

CHAT TOPICS TASKS

Thursday, April 16th 2020

Corrie Thu Apr 16 at 7:29am

Hi all! It's finally public: The American Museum of Natural History will have virtual activities throughout the day of Earth Day, including 2 OpenSpace livestreams (12 and 6 pm EST). <https://www.amnh.org/calendar/earthfest-2020>



EarthFest: April 22, 2020 | American Museum of Natural History


The Museum's buildings are closed, but you can still celebrate the 50th anniversary of Earth Day at ...

American Museum of Natural History

1

Jeff Nee Thu Apr 16 at 8:05am

Thanks for sharing, Corrie, we'll add it to our calendar and event map. @team Also, for everyone, the new Earth Day poster is now ready (in Spanish, too). Use it as background, wallpaper, or as a "waiting to go live" image! <https://science.nasa.gov/toolkits/earth-day-2020>



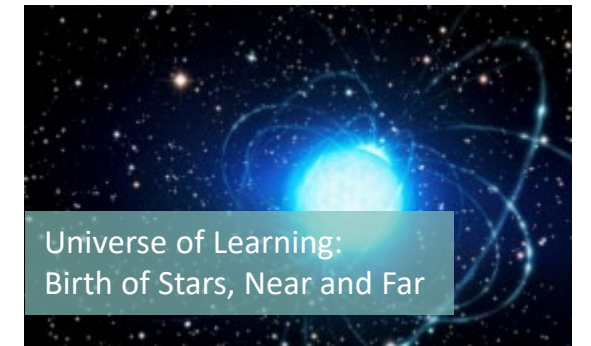
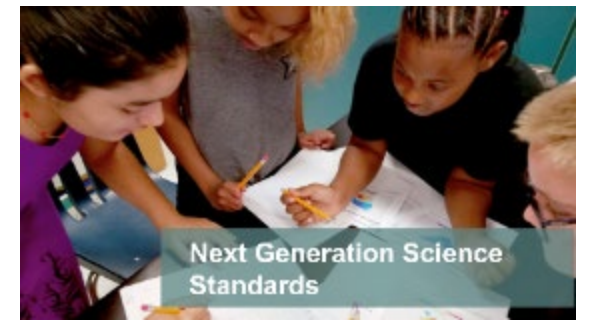
Message Earth Day 50th Anniversary

Send



# Presentations by NASA Experts

- Live conversations, Q&A
- Presentation materials
- Key links and websites
- Average of 4 a month
- Archived recording and chats



# Member Newsletter

- Weekly updates
- Featured items
- Alerts to new content on site
- Recently redesigned

Happy [Women's Equality Day](#), Alliance,

Celebrate the [Past, Present, and Future of Women in Space](#) today and every day! Engage audiences in [NASA's Artemis program](#) to send the first woman to the Moon and make our way to Mars. Share inspirational [posters](#), find current [role models](#), and explore [history](#). Find more [resources](#) on the site, and always [reach out](#) if you have questions, requests, or suggestions. For other resources:



#### [Intro to Infiniscope](#)

Infiniscope offers no fuss, stand-alone, Earth & space science experiences. [Custom-designed simulations](#) promote deep understanding by bringing abstract scientific ideas to life. Learn how to quickly and seamlessly integrate them into your curriculum. Join info sessions for [Middle School](#) and [High School](#).



#### [National Hispanic Heritage Month](#)

Starting September 15, NASA is celebrating the histories, cultures and contributions of Hispanic Americans. Find curriculum, information, Spanish vocabulary, multimedia, and downloadables on the resource page.



#### [NASA's App Development Challenge \(ADC\)](#)

ADC is a coding challenge for middle and high school students who take part directly in the Artemis Generation endeavors to land the first woman and the next man on the Moon. Join virtual information sessions, and see all the details on the webpage.

Share and Report Your  
Events Here

Questions? Click for the  
Team Chat.

Recently Added/Updated:

Resource - [Tracy Caldwell Dyson's Iconic Cupola Selfie](#)

Telecon - [Solar Dynamics Observatory Mission Update Recording](#)

[Reset](#) your password, as needed.





**Amelia Chapman** (2<sup>nd</sup> from left at JPL's Dress like Apollo Day)



**Kevin Frank and  
Jeff Nee in action**



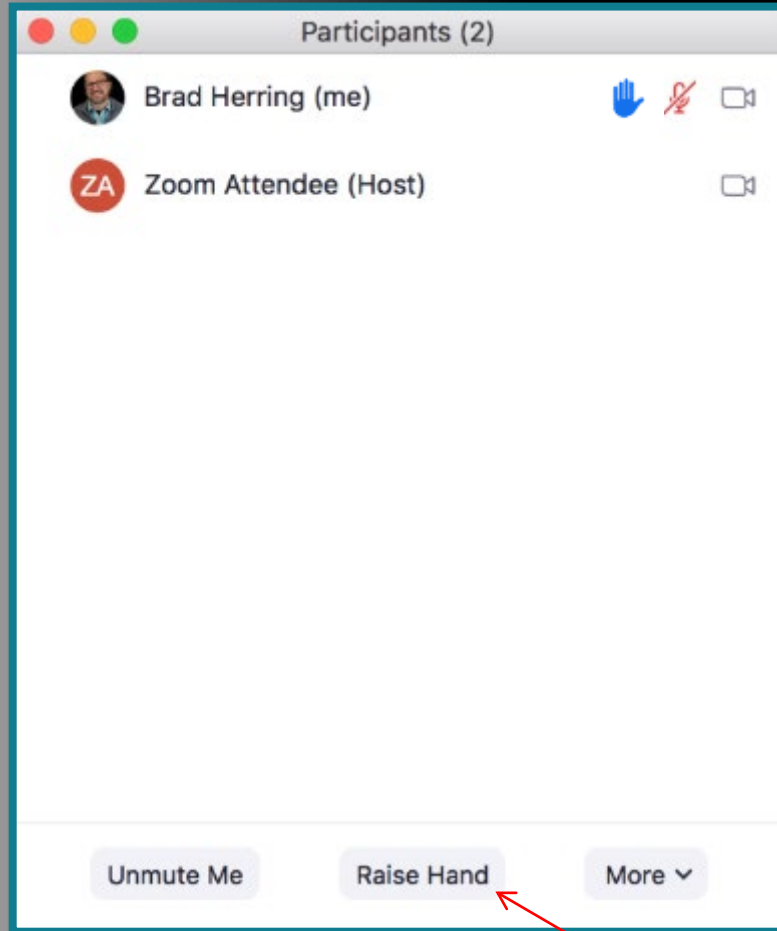




# OpenSpace

## Live Demo

# How to Participate in the Q&A

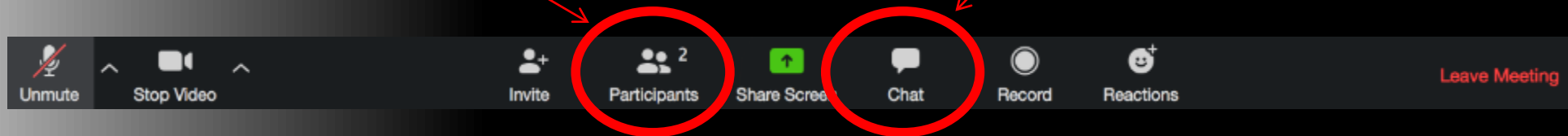


## How to talk

- Raise your hand
- Keep yourself muted
- Reminder that today's session is being recorded

## How to chat

- Enter your comments and questions into the chat box





# Breakout Groups

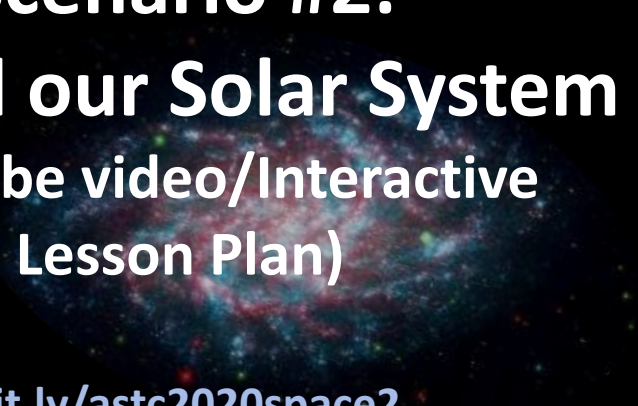
**Scenario #1:**  
**Observe the Moon**  
(Facebook Live)

[bit.ly/astc2020space1](https://bit.ly/astc2020space1)



**Scenario #2:**  
**Beyond our Solar System**  
(YouTube video/Interactive Lesson Plan)

[bit.ly/astc2020space2](https://bit.ly/astc2020space2)



**Scenario #3:**  
**Let's Go to Mars**  
(Zoom class)

[bit.ly/astc2020space3](https://bit.ly/astc2020space3)



**Scenario #4:**  
**Earth's Watersheds**  
(Take home kit & online facilitation)

[bit.ly/astc2020space4](https://bit.ly/astc2020space4)

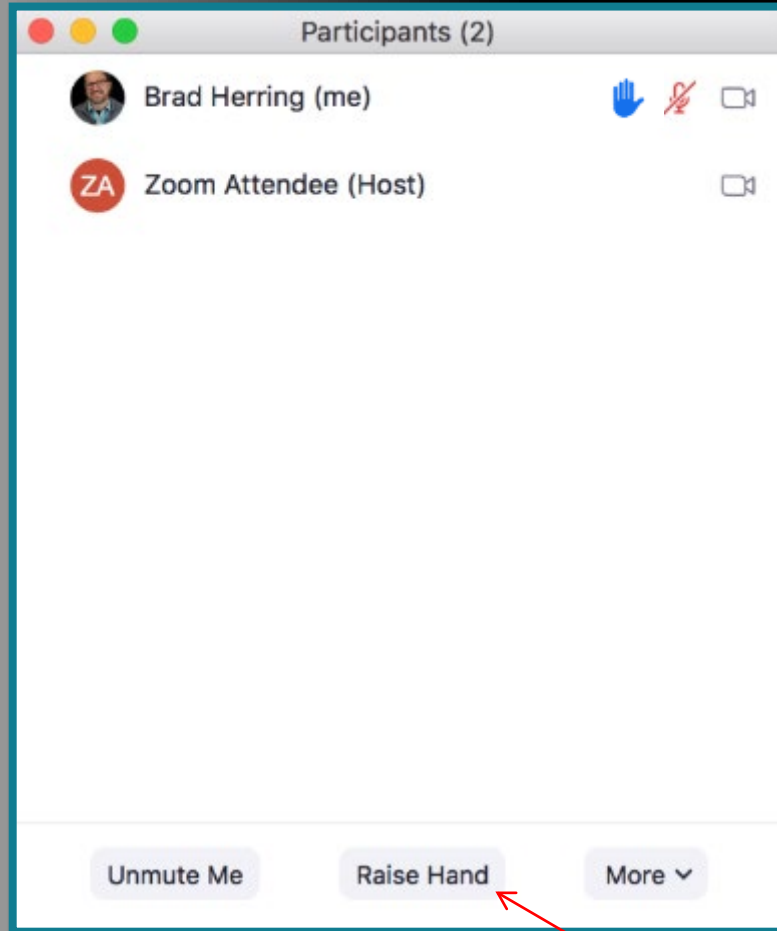




**Welcome  
Back...  
Let's  
Wrap-up!**



# How to Participate in the Wrap-up

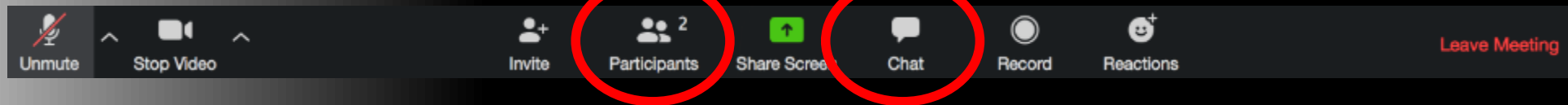


## How to talk

- Raise your hand
- Keep yourself muted
- Reminder that today's session is being recorded

## How to chat

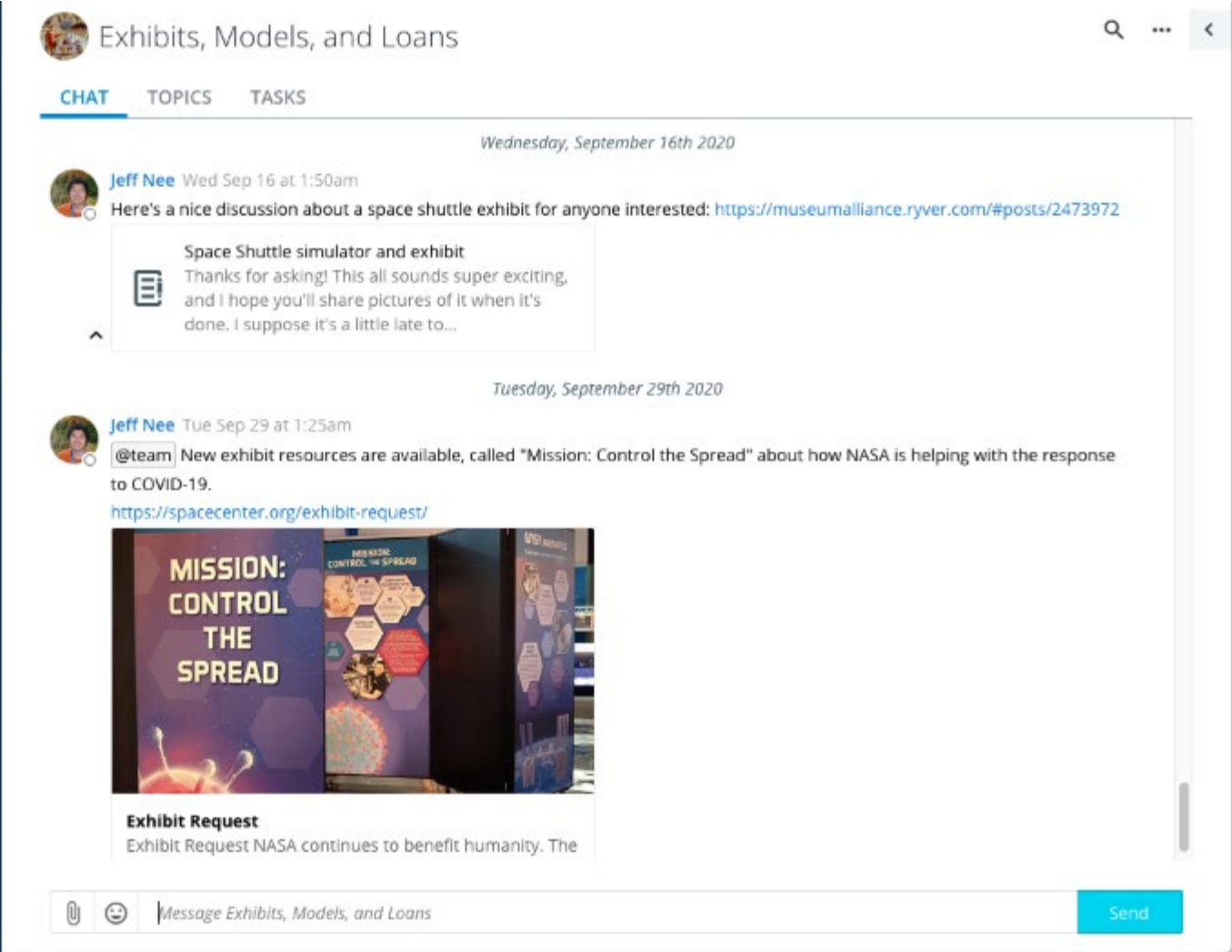
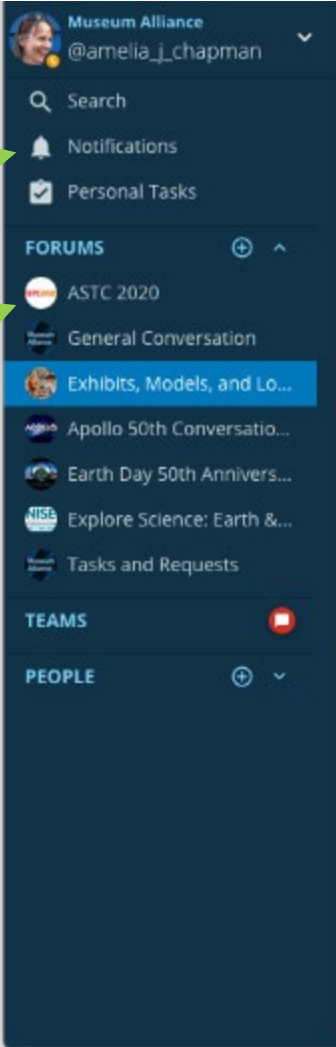
- Enter your comments and questions into the chat box



# Join the Collaborative Chat (Ryver)

The Resource List has a link to join the chat platform, and a short tutorial on setting these.

If you are already on, no need to rejoin. Just look for this.



# Thank You



This material is based upon work supported by NASA under cooperative agreement award numbers NNX16AC67A and 80NSSC18M0061. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).



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**All session resources & links**

**[bit.ly/astc2020space](https://bit.ly/astc2020space)**