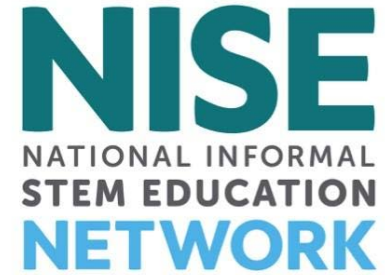


# NISE Net Online Workshop

Lessons learned from a summer of physically distanced Earth and space public engagement

*Tuesday, September 15, 2020*



***Welcome!***

**Today's presenters are:**

- **Brad Herring**, Museum of Life and Science, NC
- **Michele Wiles**, tag! Children's Museum, FL
- **Deborah Staber**, LC Bates Museum, ME
- **Andrea Reynolds**, Ann Arbor Hands-On Museum, MI



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)**

# Workshop Overview



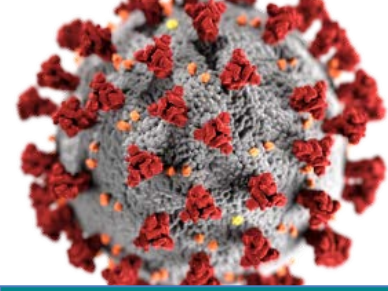
**Brad Herring** – Museum of Life and Science & NISE Network – **5 min**

**Michele Wiles, tag!** Children's Museum – **8 min**

**Deborah Staber**, LC Bates Museum – **8 min**

**Andrea Reynolds**, Ann Arbor Hands-On Museum – **8 min**

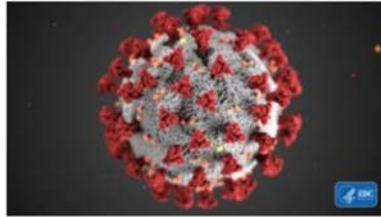
**Q/A** – **15 min**



# 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/>

- 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

## NISE Net Online Workshop NISE Network Partner Reopening Strategies PART 1 Tuesday, May 26, 2020



### Welcome!

#### Today's presenters are:

- Brad Herring, 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:

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Online Workshop: NISE Network Partner  
Reopening Strategies PART 1

This column is only visible to you

See video analytics

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

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



Adapting to Our Post-Corona Environment





Elementary STEM Fairs  
Big Brothers Big Sisters  
Workshops

Girl Scouts  
Parks & Rec

tag

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

+



=

Video  
series

14 young people ages 6 - 17  
volunteering 42 hours

13 videos created by CycleHere Media

tag



# talk about genius

- Premiered live on Facebook every Wednesday from June 3 - August 26
- Videos will re-run over the next 3 months
- Videos posted on tagmuseum.org website with communication via Facebook, Instagram, Twitter, Linked In, ConstantContact



talk about genius!



We're talking about nebula spin art.  
Click and join us!

talk about genius!



Today, we're talking about sublimation bubbles.  
Click and join us!

talk about genius!



Today, we're talking about sea level changes.  
Click and join us!

talk about genius!



We're talking about orbiting objects.  
Click and join us!

talk about genius!



Today, we're talking about weather.  
Click and join us!

talk about genius!



Today, we're talking about shadows.  
Click and join us!

talk about genius!



We're talking about star formation.  
Click and join us!

talk about genius!



We're talking about what's in the water.  
Click and join us!

talk about genius!



We're talking about early explorations.  
Click and join us!

talk about genius!



We're talking about building a battery.  
Click and join us!

talk about genius!



We're talking about temperature mapping.  
Click and join us!

talk about genius!



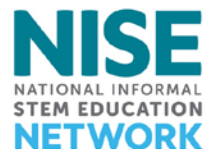
Today, we're talking about land cover.  
Click and join us!



# talk about genius!



We're talking about engineering and building.  
Click and join us!





75,000 views  
Great feedback

tag

“...We are homeschooling this year, and these short videos led by children bring added fun to the science program we're using. They look forward to them each week!”





# Earth and Space Kits for Kids

With the virus issues, when the L.C.Bates Museum closed, surveys determined families and teachers wanted educational Kids' Kits.

The Earth and Space Kits were a positive experience for the museum and its audience.

# From In Person Experiences to Kits



The NISE Kits helped guide the museum in quickly developing individual Earth and Space kits that included astronomy activities, materials and crafts used for museum camps, outreach Sun viewing programs and school fieldtrips. The museum used what was in hand in a new way to support community learning.



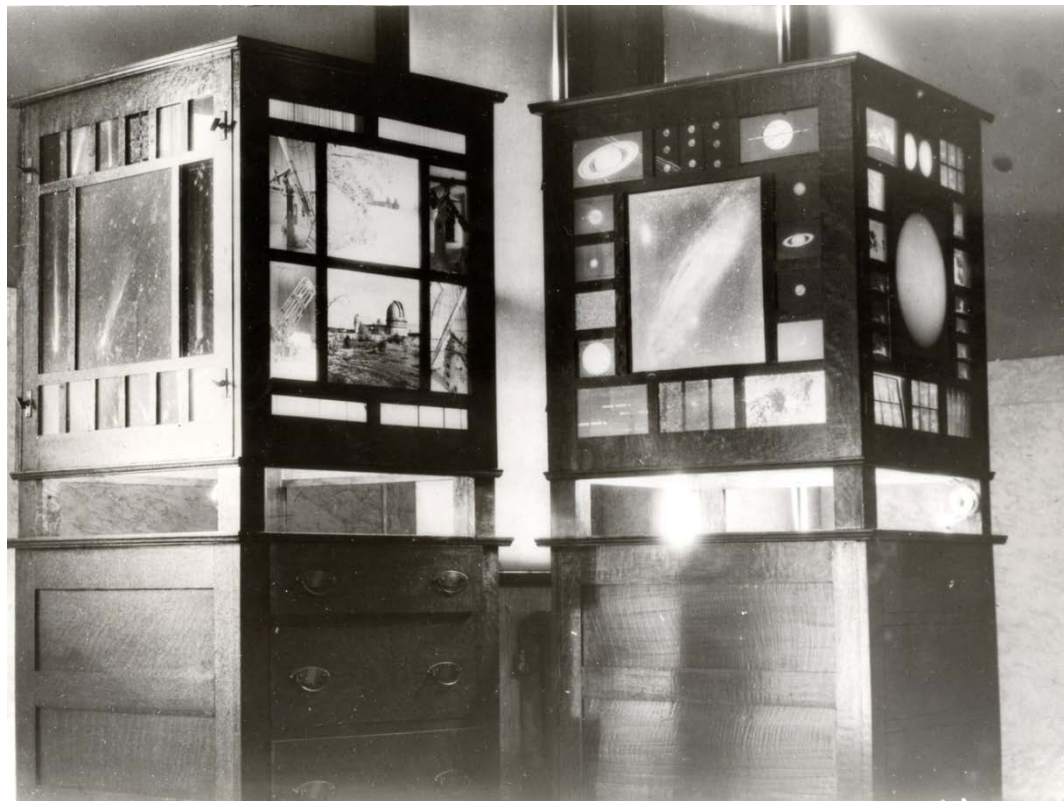
# Sun and Sky Viewing, the usual Museum Activities for Visitors were not possible.



We designed kits with activities that would provide similar experiences and include NASA and other resource lists for parents and teachers.

NISE kits added activities for special Earth and Space Days, field trips and more. They are missed by children, teachers and families.





**The L.C.Bates Museum Has Offered Astronomy Exhibits since the early 1900's.**

**Space Images from this early exhibit were included in the kits.**

The NISE Earth and Space kits program brought new hands on experiences to our audience. With the virus, we choose to create individual children's kits. These incorporated and were guided by NASA Space Place and NISE kits activities.



The Earth and Space kits included NISE printed materials, tattoos and the Junior Ranger Night Exploration booklet. When those materials ran out we incorporated copied NISE activities including Paper Mountains, Pocket Solar System, the Investigating Clouds activity page, directions to do Craters at home, bookmarks and more. After the first 75 kits, the kits NISE content became varied, but still provided many learning experiences that served our audience needs.

The kits had materials we had developed for other programs and sun viewing. We included a Sun viewing booklet and glasses and photos of the Sun taken through our telescopes that the children could examine, since they could not use the telescopes. All included instructions and supplies for experimenting with solar beads, moon phases, planet coloring pages, Sun dials, and more.





Through Facebook, articles in local newspapers, teacher emails and our newsletter, we reached our audience and people came to pick up kits. Most called to arrange a time to pick the kits up. The kits were left outside on the picnic tables or just outside the museum door. The individual kits were placed in plastic bags that protected them and made them easy to distribute.





Most children started exploring the Earth and Space Kits as soon as they received them. Emails and surveys of 6 teachers said the kits worked well for individual students, they learned from the kits activities and they want additional kits. Many reported “the kits are a great break from the computer.”



The Earth and Space kits lead the museum to making additional science kits and preparing related short Nature Nugget Videos. Because they are designed for individual students and are not shared, they address current school issues and will replace many of our solar viewing and outreach programs to schools. We now have Earth and Space, bird, insect, tree, Maine mineral kits and “Nature Nuggets”.





The image shows the Ann Arbor Hands-On Museum building at dusk. The building is a two-story structure with a curved upper level and a flat lower level. The upper level has a large glass window with a red frame. The lower level has a red door and a red frame. The building is decorated with large, colorful gears and a wall of colorful tiles. The sky is dark blue with some light clouds. In the foreground, there are concrete benches and a planter with yellow flowers.

# Ann Arbor Hands-On Museum

Andrea Reynolds  
Sr. Outreach Manager



# Education Department Breakdown



Outreach

Public Programs

Summer Camp

Distance Learning

## Constraints and Pressures:

- Programs cancelled
- Maintain presence in community
- Who has the time?

# Adaptations



Move to  
demo/presentation style  
activity



Simple supplies



Activity videos



45-minute workshops  
around a theme

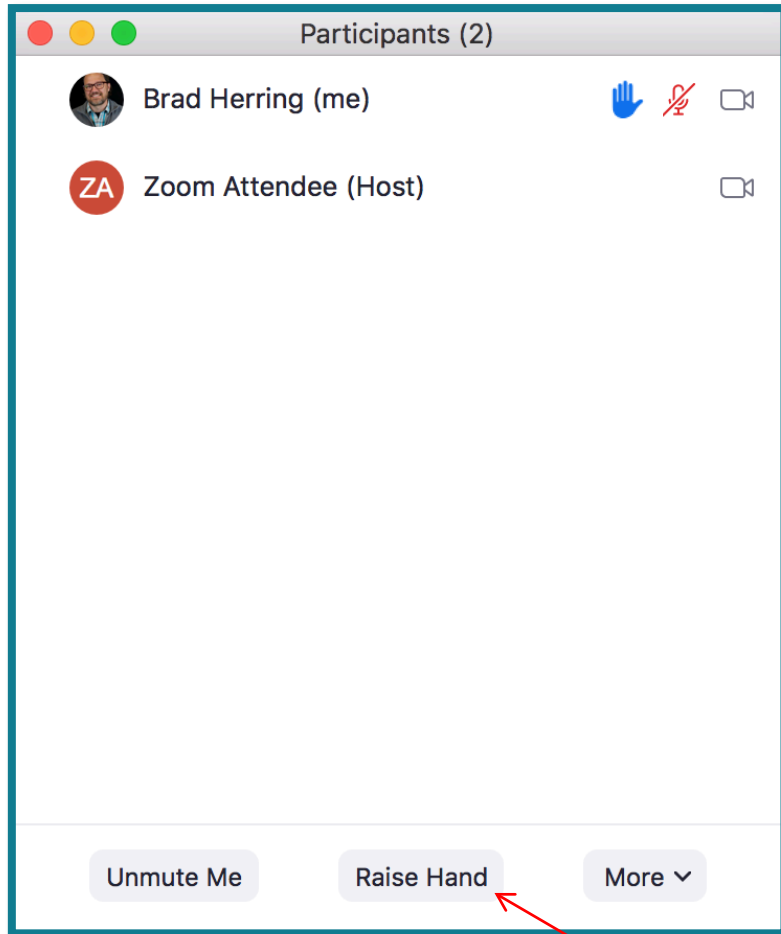


Activities  
most easily  
adapted:

- Investigating Clouds
- Nebula Spin Art
- Pocket Solar System
- Star Formation
- Stomp Rockets
- Temperature Mapping
- Imagining Life



# How to Participate in the Share-Out

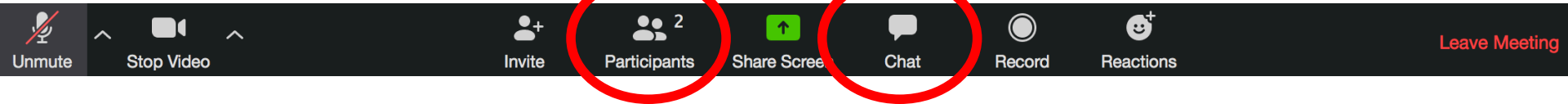


## How to talk

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

## How to chat

- Enter your comments and questions into the chat box



# Discussion Topics from RSVP Form

---

- What were some of the unexpected barriers or unexpected successes doing your COVID programming?
- How did you advertise for your programming (including families that may not be searching out online opportunities)
- How did you make programs interactive for different ages?
- How did you get resources to underserved/underrepresented families?
- What's the best way to modify for at-home learning - best kits to offer an at-home supply list and visuals?
- Did you have virtual programming before COVID, and if so, how was post-COVID virtual programming different?
- Do you have any data, qualitative or quantitative, about your audience to this virtual programming pre- and post-COVID?

# Upcoming NISE Network Online Workshops



**Online Workshop: Museum school outreach and fields trips in the time of COVID uncertainty**

Tuesday, September 29, 2020

2pm-3pm Eastern / 11am-12pm Pacific

**Online Workshop: The Science Behind the 2020 Explore Science: Earth and Space Toolkit B – Virtual Tour of a NASA MoonLab**

Tuesday, October 13, 2020

2pm-3pm Eastern / 11am-12pm Pacific

**Online Workshop: Moon Adventure Game - An introduction to a new challenge-based game for science and children's museums**

Tuesday, October 27, 2020

2pm-3pm Eastern / 11am-12pm Pacific

**Learn more at [nisenet.org/events](https://nisenet.org/events)**



# Get Involved

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



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



**Continue the online  
conversation**  
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# Thank You

