

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

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**

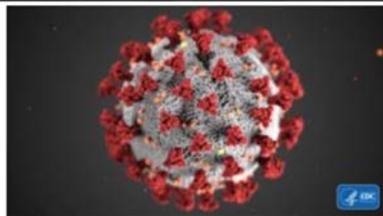
Andrea Reynolds, Ann Arbor Hands-On Museum – **8 min**

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



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Online Workshop: NISE Network Partner Reopening Strategies PART 1

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See video analytics

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

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



tag 

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!



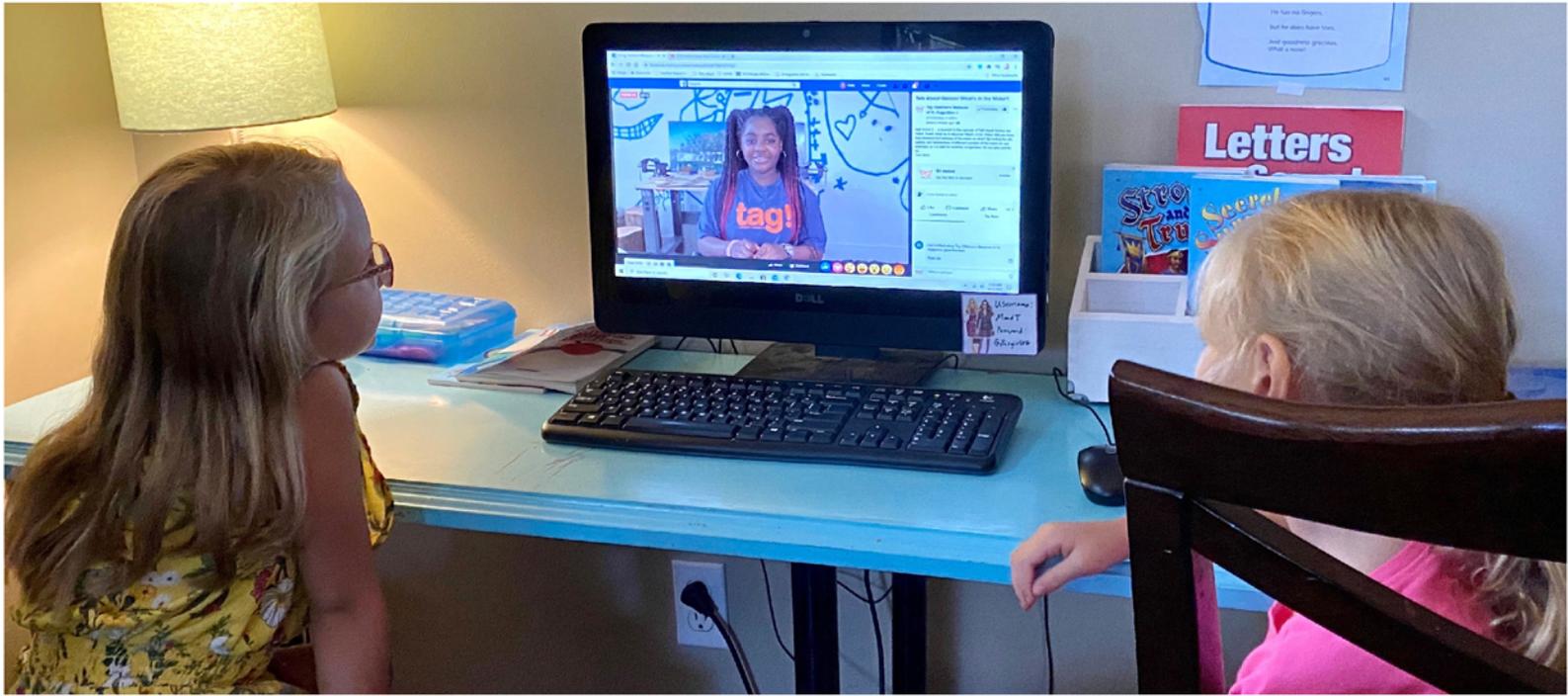
Today, we're talking about land cover.
Click and join us!

talk about genius!



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





75,000 views
Great feedback

“...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!”

tag





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.

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 prominent white cylindrical upper section and a ground floor with large red-framed glass doors. The sign on the white section reads "Ann Arbor HANDS-ON Museum" with a colorful logo featuring a hand and a gear. To the left, there are large decorative gears in red, yellow, and blue. To the right, a brick building has a wall decorated with colorful mosaic tiles. In the foreground, there is a paved plaza with several concrete benches and a large grey planter filled 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



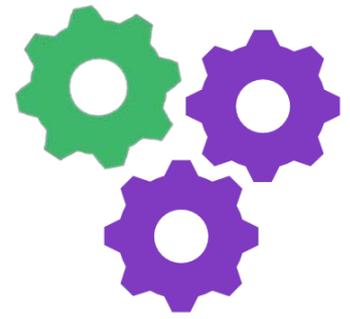
Simple supplies



Activity videos



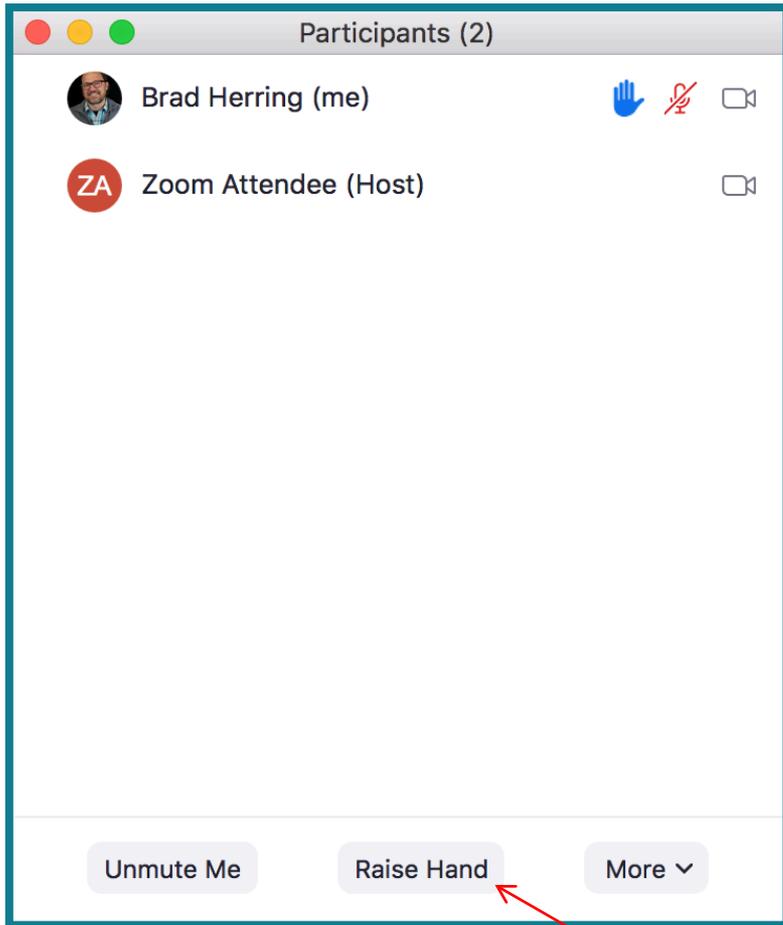
45-minute workshops
around a theme



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



Get Involved

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



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monthly newsletter**
nisenet.org/newsletter



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conversation**
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Thank You

