

NATIONAL INFORMAL STEM EDUCATION NETWORK

Planning successful BIG events such as anniversaries, celebrations, and festivals

#### **Session Agenda**

- Brief overview of NISE Network planning resources
- NISE Network partner presentations
  - Paul Freiling, Saint Louis Science Center, Saint Louis, MO
  - Deb Novak, New Mexico Museum of Natural History, Albuquerque, NM
  - Keith Ostfeld, Children's Museum of Houston, Houston, TX
  - Aaron Slonecker, Anchorage Museum, Anchorage, AK
  - Nick Whites, WonderLab Museum of Science, Health and Technology, Bloomington, IN
  - Kari Wouk, North Carolina Museum of Natural Sciences, Raleigh, NC
- Q&A

## All resources available online after the meeting: nisenet.org/2019-partner-meeting





# What kind of BIG Events?

- 2017 Total Solar Eclipse
- Earth Day, Astronomy Day, Yuri's Night
- National Chemistry Week, National Engineers Week, Women's History Month
- Star parties, Mission launches, Science festivals, etc.

### The 50th Anniversary of the Apollo Program



Celebrate past, present, and future lunar exploration!





#### **NISE Network Resources**

- Moon Landing 50<sup>th</sup> Anniversary
  - nisenet.org/moon50
- Event planning and promotional Guides by STEM topic (& much more!)
  - nisenet.org/About\_Professional\_Development
- STEM Throughout the Year!
  - nisenet.org/seasons



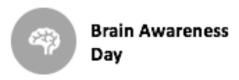
## Planning BIG Events at the Saint Louis Science Center

Paul Freiling
Director, Emerging Technology | Education









# Then we added more BIG events...



**Bright Ideas Expo** 





DNA Day











# And more BIG events...



HealthFest



International Science Museum Day



Mega Machines Expo



Pi Day



**Pixel Pop Festival** 



Rock, Fossil, Quake

## Save The Frogs Day Last Saturday of April



savethefrogs.com/day



**Our Solution** 

SciFest: Engineering Our World

February 24-25

**Fewer Events at** a Bigger Scale



**Increased Partner Collaboration** 





Increased Ability to React to Partner Requests



Increased visitors satisfaction (Surprised to learn that our visitors wanted fewer events)



**Not One Size Fits All** 



NISE Network Kits and SciFest

#### Conclusions



SciFest model positions us to better engage with NISE Net



NISE Network Kits are key for successful SciFest programming



## New Mexico Museum of Natural History & Science

Deb Novak- Director of Education



## Planetarium Programming

- Run by Jim Greenhouse
- Assistant Geoff Skelton
- ½ time Educator + rest of Edu pitches in
- Workstudy students
- & lots of volunteers

 4 shows daily plus custom slots



In 2019, we're offering monthly night-sky observing opportunities to coincide with museum, local, or international events. Members of local astronomy groups will help you study the moon and stars through a variety of telescopes. Each event will feature any visible planets and other interesting objects in the sky.

The observing part of any event may be canceled when the sky is cloudy.

Dates	Observing	Event
January 3	12 - 3 p.m.	New Horizons at Ultima Thule
January 4	6 - 8 p.m.	First Friday - Lunar Eclipse Preview
January 20	8:30 - 11:30 p.m.	Supermoon Total Eclipse
February 1	6 - 8 p.m.	First Friday - Fall in Love with Science
March 1	7 - 9 p.m.	First Friday
April 5	8 - 9 p.m.	First Friday
April 10	8 - 9 p.m.	Stargazing at <u>Valle de Oro</u> <u>NWR</u>
May 3	8:30 - 9 p.m.	First Friday
June 7	8:30 - 9 p.m.	First Friday
June 30	10 a.m 2 p.m.	Asteroid Day
July 5	8:30 - 9 p.m.	First Friday
August 2	8:30 - 9 p.m.	First Friday
September 4	8 - 9 p.m.	Sandia Mountain Stargazing
September 6	8 - 9 p.m.	First Friday
October 4	7 - 9 p.m.	First Friday - Intl. Observe the Moon Night
November 1	7 - 9 p.m.	First Friday
November 11	12 - 4 p.m.	Transit of Mercury
December 6	6 - 8 p.m.	Old Town Holiday Stroll

### SEPTEMBER 20 - 27, 2015

## SPACE WEEK

AT THE NEW MEXICO MUSEUM OF NATURAL HISTORY & SCIENCE

Explore our solar system, from the moon to the sun and out to planets recently visited by robotic explorers.

- Sept. 20th See the Sun safely
- Sept. 21st Observe the Moon and other objects in the night sky
- Sept. 24th Learn about meteorites
- Sept. 27th Witness the last total lunar eclipse until 2018
- Enjoy special talks and planetarium shows most afternoons

(Observing events are canceled when the sky is cloudy)

Visit the events section the complete schedu





## World Space Week October 4 - 10 - 2016

An international celebration of space science and technology.

The New Mexico Museum of Natural History & Science will celebrate World Space Week with three public talks.

Space Week talks are FREE (with Museum Admission)
Check out the Museum Planetarium and Observatory too!

#### Wednesday, October 5 • 2 - 3pm

Citizen Science with NASA and the Globe Program by Jeannie Allen, Science Educator, SSAI at Goddard Spaceflight Center

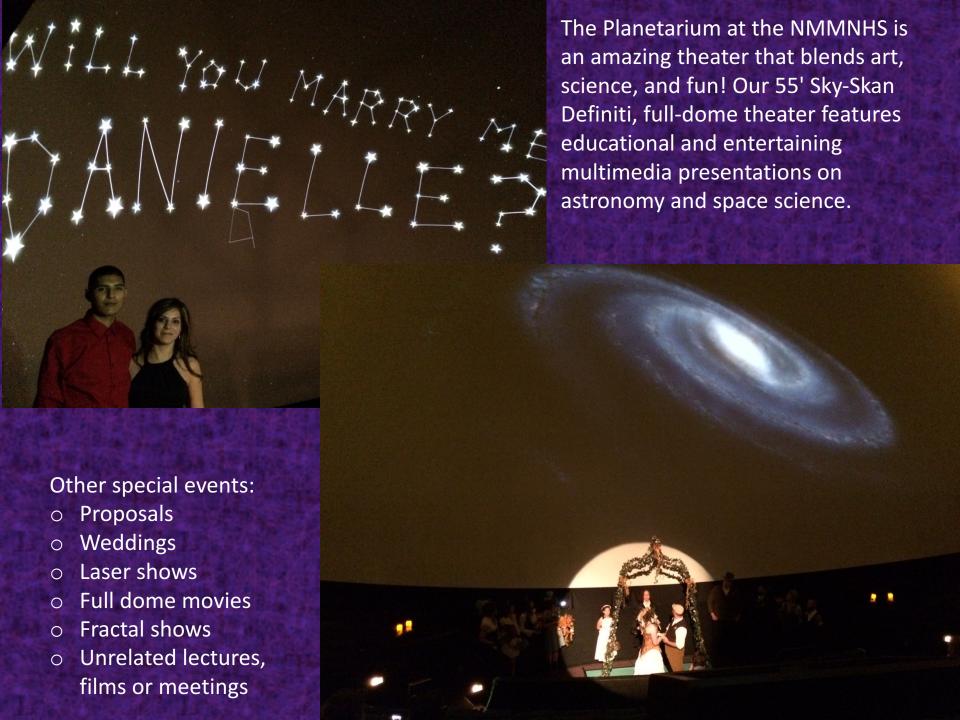
#### Thursday, October 6 • 2 - 3pm

40 Years on Mars: Celebrating the Viking Mission by Larry Crumpler, Ph.D. and Jayne Aubele, NMMNHS

#### Friday, October 7 • 2 - 3pm

Advanced Infrared Imaging for Rapid Decision Support by Wellesley Pereira, Ph.D. and Gabe Mounce, Air Force Research Laboratory

New Mexico Museum of Natural History and Science 1801 Mountain Rd NW, ABQ NM 87104 for information www.NMnaturalhistory.org or call 841-2861



## Volunteers (we couldn't do it without them)



26 volunteers





#s don't include teen volunteers



## Care and feeding of volunteers

- Good advance communication
- Asking nicely
- Rolling with ideas
- Reciprocal sharing
- Giving them credit
- Forming relationships with both individuals and the organizations
- Saying Thank You!!!



## Engaging with multiple areas of STEM



Woohoo! The end of Deb's slides and talk!



## Thank You!





## A Partial Eclipse of Our Hearts...





Mission: To transform communities through innovative, child-centered learning





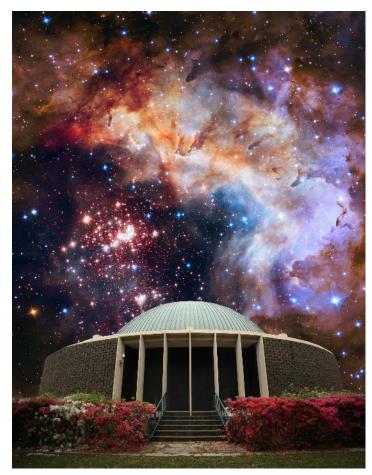


## Total\* Eclipse 2017

The Challenges



## Is space big enough to share?





**Space Center Houston** 

Houston Museum of Natural Science's Burke Baker Planetarium



## First Day of School





## Personal Plans





### Our event...



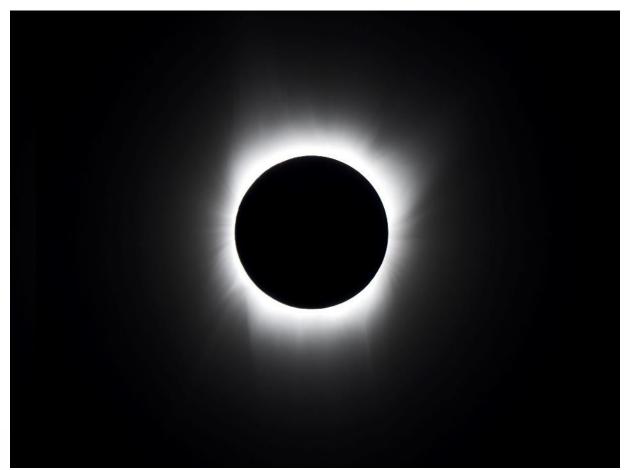


### Event Process (my interpretation)

- Pick and name the theme
- Blue Sky planning
- Refining the message and activities
- Planning including safety considerations
- Execution



### Theme and Name



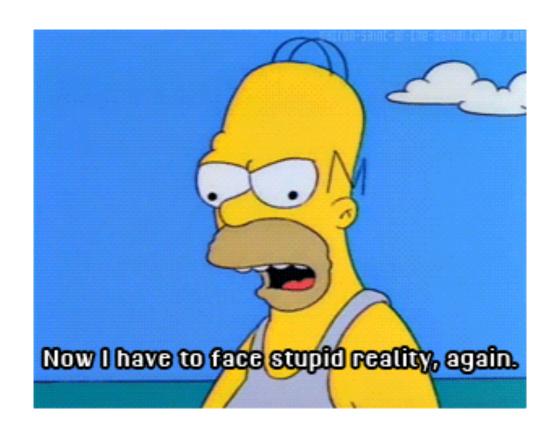


# Blue Sky Planning





### Refining Messages and Activities





## Planning





# Safety



# Safety









### SOLAR ECLIPSE Activities



#### Solar Eclipse Viewing Party in Courtyard

11am - 3pm, weather permitting Learn to use 2 types of pinhole viewers to safely observe the eclipse!

Exploratorium Live Stream in Brown Auditorium, 12pm
Watch a live stream of the 70-mile path of the "total eclipse" from Oregon to South Carolina

Exploring the Solar System: Big Sun, Small Moon at Science Station, all day

Learn why the moon and sun appear the same size

Exploring the Solar System: Solar Eclipse at Science Station, all day Throw shade and explore what causes an eclipse

Exploring Earth: Bear's Shadow at Science Station, all day
Use a flashlight to experiment with shadows

**Pinhole Postcard** at Science Station, all day Pick up a postcard to safely observe Solar Eclipse, while supplies last.



 $\sim$  Event details and times are subject to change  $\sim$ 









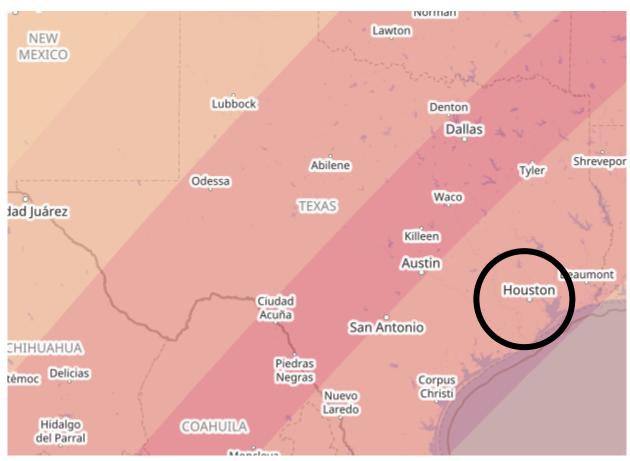






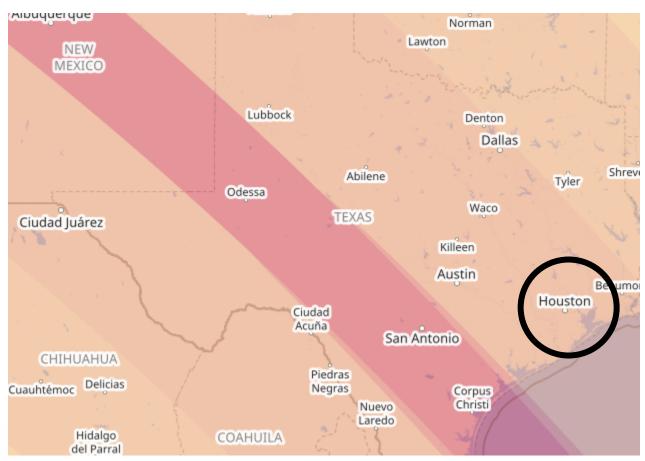


# Total Eclipse 2024





# Annular Eclipse 2023





### Until then...





### Until then...





# Questions?



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Director of Educational Technology and Exhibit Development
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@KeithOstfeld

# Astronomy Days and Connecting NISE Toolkits to Planetarium and Outreach Programs

Aaron Slonecker
Planetarium & Science Education Manager





### **ANCHORAGE MUSEUM**

- MISSION: Connects people, expands perspectives, and encourages global dialogue about the North and its distinct environment.
- Multidiscipline approach
  - Smithsonian Arctic Studies
     Center
  - Alaska Exhibition
  - Art of the North
  - Discovery Center









# DISCOVERY CENTER





# ASTRONOMY DAY



#### INTERNATIONAL ASRONOMY DAY SATURDAY, APR. 21 1 P.M. TO 4 P.M.

- -Hands-on activities and solar observing for all ages.
- -Meet Solar System Ambassadors as they share information on the newest space missions.
- -Guest speaker Jenn Zahrt, PhD, presents a cultural astronomy and astrology lecture at 4 p.m.









# ANCHORAGE MUSEUM ASTRONOMY DAYS

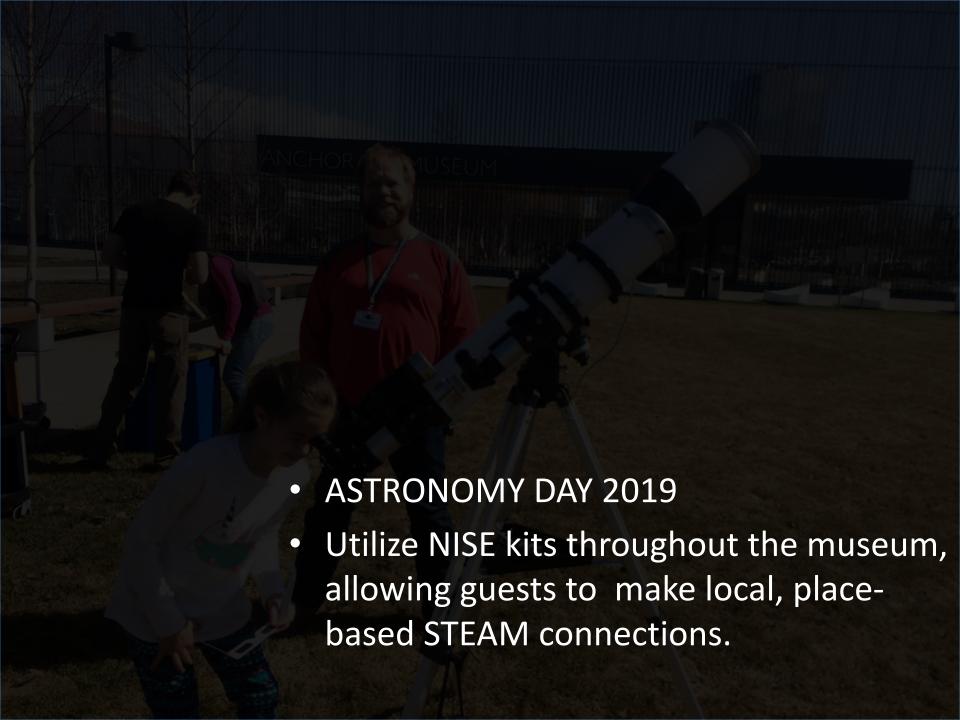
- Outdoor observing
- Hands-on activities (NISE kits)
- Partnerships
- Immersive experiences
- Lectures
- Workshops
- Citizen science projects
- Free swag

2015 - 200 visitors

2016 – 200 visitors

2017 – 350 visitors (NISE kits)

2018 – 5,000 visitors (NISE kits)\*



# ADDITIONAL PROGRAMS







- Library outreach
- School group packages
- Summer camps and workshops









#### **Nick Whites**

Museum Educator



**The WonderLab** is a small science museum in Bloomington, IN with around 80,000 visitors/year.



WonderLab presents a variety of **special events and programs** throughout the year.



In 2018, WonderLab held its **Mission to Mars Program** to celebrate the NASA Insight Mission.



# NASA's InSight Mission

is a geophysical lander sent to study the interior of Mars

The program combined museum resources with NISE Net activities, Local Scientists, and Volunteers.



**NISE Network Resources** were the foundation of the event.

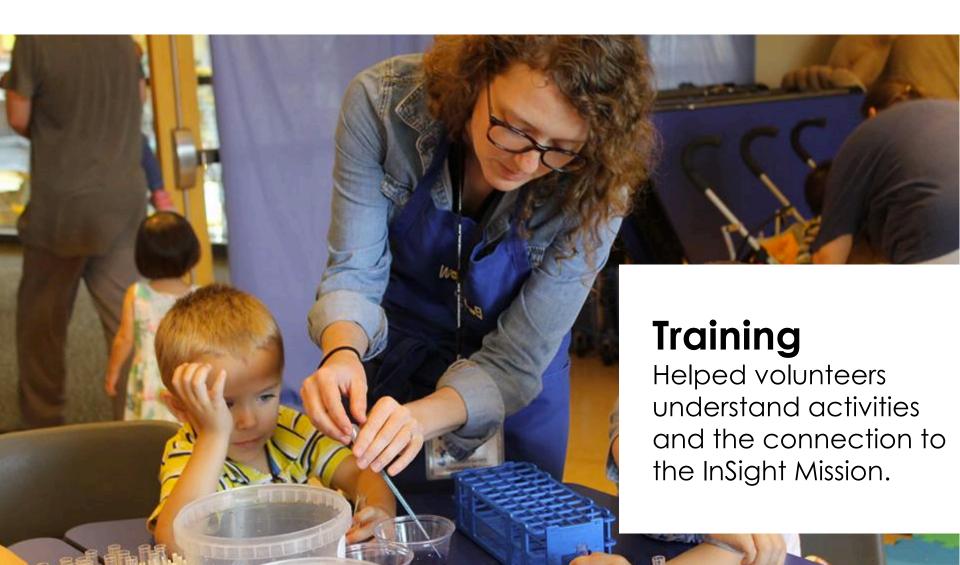


**Local Scientists** brought unique resources and expertise to the event.

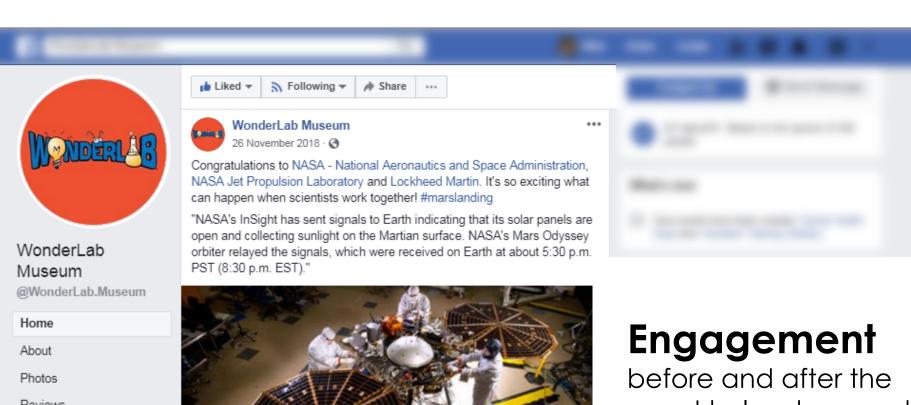




**Volunteers** were essential to running activities and connecting with visitors.



### **Social Media** was used to excite visitors about both the launch and the program.



event helped expand program impact.

Reviews

Events

Instagram feed

Pins

Videos

V ... T. I.

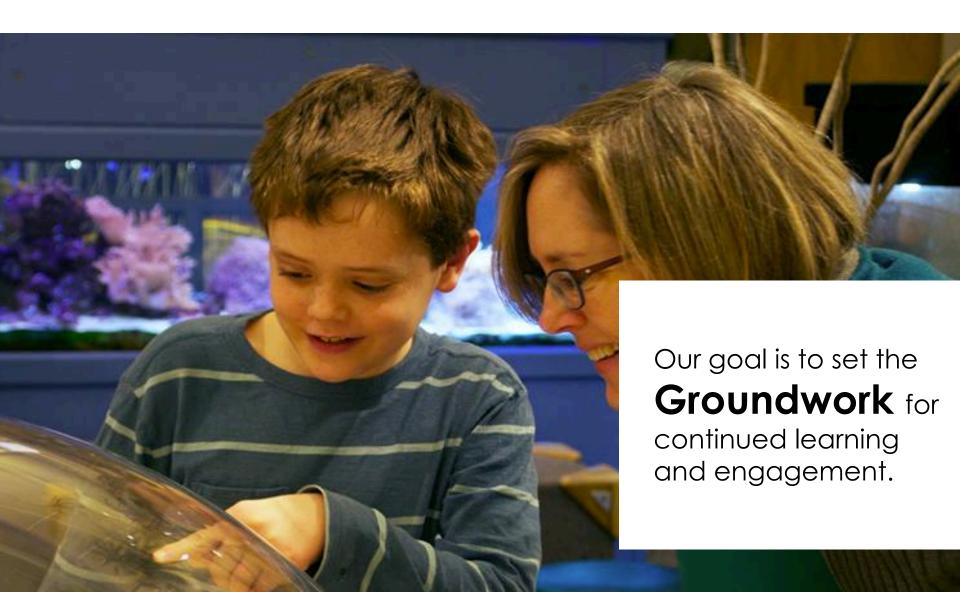
TripAdvisor Reviews

NASA's InSight Mars Lander

MARS.NASA.GOV

The InSight lander will study the interior of Mars and listen for Marsquakes.

# The program also helped visitors connect with additional resources and future events.





#### **Nick Whites**

Museum Educator



# THANK YOU

#### Acknowledgements

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#### Image credits

Slides 2, 5, 6 Andrea Golden for the WonderLab

Slides 3, 8,10 Aleisha Kropf for the WonderLab

Slides: 7 Indiana Geological and Water Survey

Slides 1, 4, 11 WonderLab Marketing- graphic design team

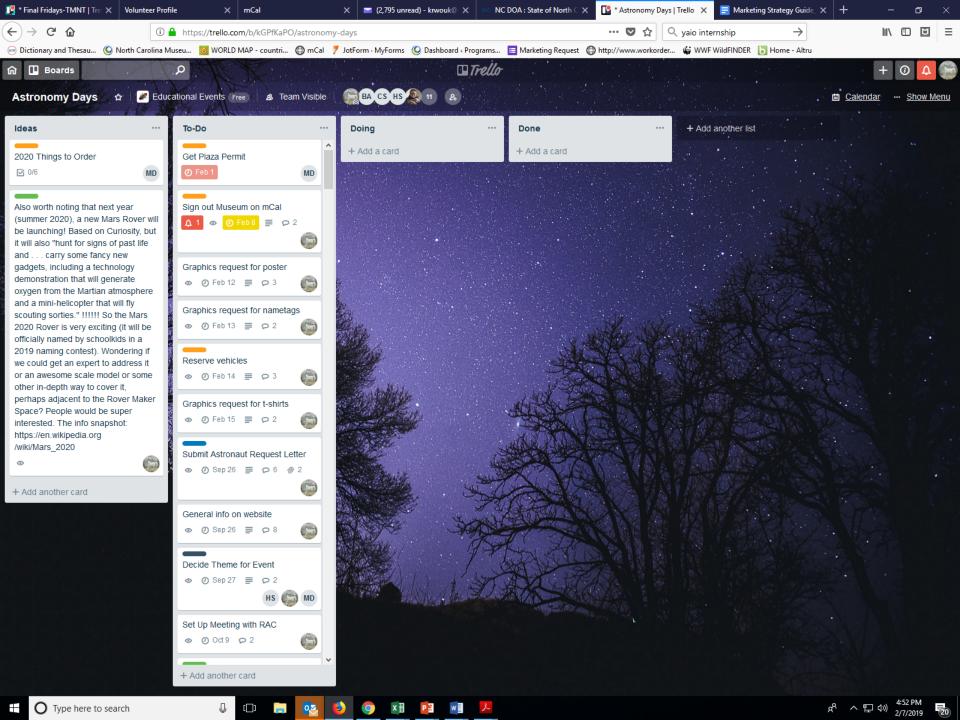




# **ASTRONOMY DAYS**

Kari Wouk, Senior Manager of Educational Collaborations NC Museum of Natural Sciences





# Questions?

# All resources available online after the meeting: nisenet.org/2019-partner-meeting



### **THANK YOU!**





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# Get Involved with the NISE Network!

Learn more and access online digital library:

# nisenet.org

Monthly newsletter nisenet.org/newsletter

Social networking: nisenet.org/social



