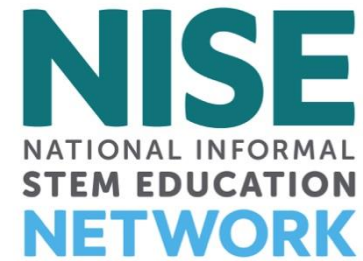


# NISE Net Online Workshop

*What's in your 2018 Explore Science: Earth & Space toolkit?*

*Tuesday, February 6, 2018*



**Welcome!**

**Today's presenters are:**

Ali Jackson, *Sciencenter*

Thai Chang, Science Museum of Minnesota

Ethan Kruszka, Science Museum of Minnesota

& the NISE Network toolkit team



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 Overview



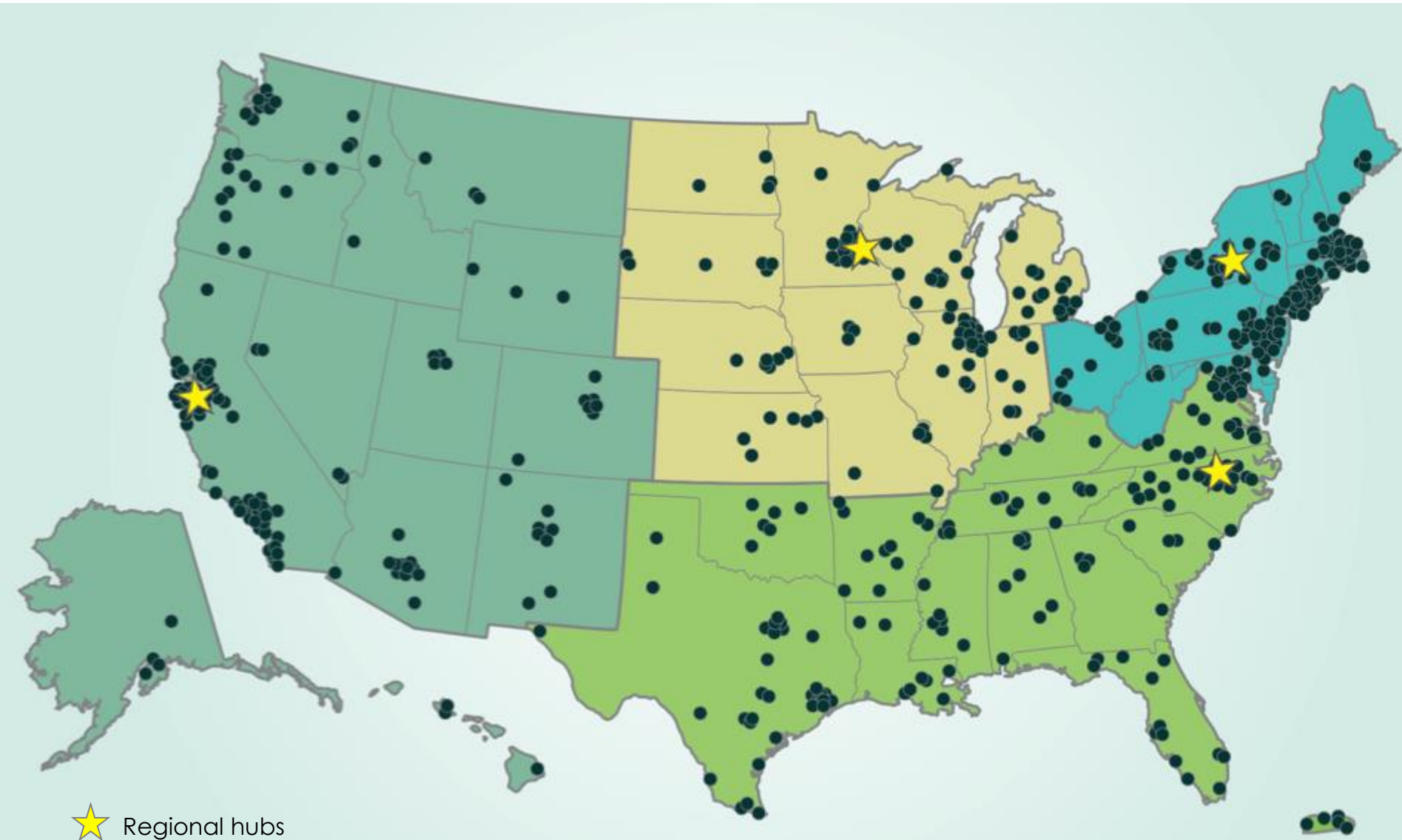
NISE Network Overview

Explore Science: Earth &  
Space Toolkit

2018 Toolkit Activities

Q/A

***Hundreds of organizations** regularly participate in NISE Network activities.*



# Stay Connected

**NORTHEAST** – Ali Jackson - Sciencenter, Ithaca, NY

Northeast: NY, VT, NH, ME, RI, CT, and MA

Mid-Atlantic: PA, NJ, MD, DC, DE, OH, and WV

**SOUTHEAST** – Brad Herring - Museum of Life and Science, Durham, NC

Southeast: VA, NC, SC, KY, TN, LA, MS, AL, GA, FL, and Puerto Rico

South: TX, AR, and OK

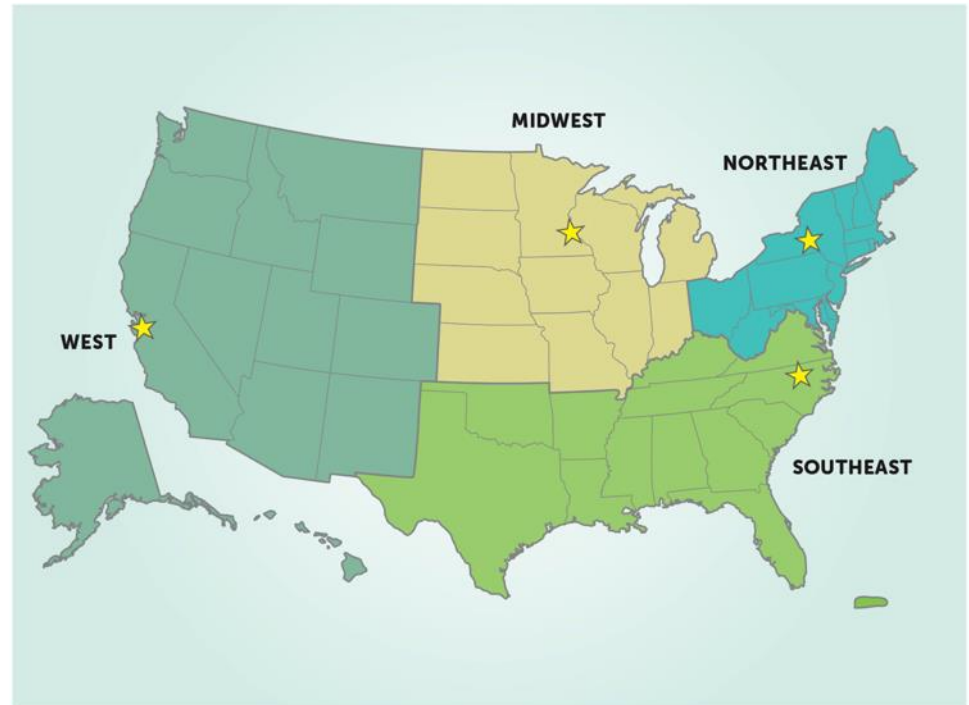
**MIDWEST** – Christina Leavell - Science Museum of Minnesota, St. Paul, MN

ND, SD, NE, KS, MN, IA, MO, WI, IL, MI, and IN

**WEST** – Frank Kusiak - UC Berkeley Lawrence Hall of Science, Berkeley, CA

Southwest: CA, NV, AZ, and HI

West AK, WA, OR, ID, MT, WY, CO, UT, and NM



# Earth and Space

## GOALS

Engage public and professional audiences in learning about Earth and space sciences

Encourage new and strengthened partnerships among national and local organizations that support informal and lifelong learning

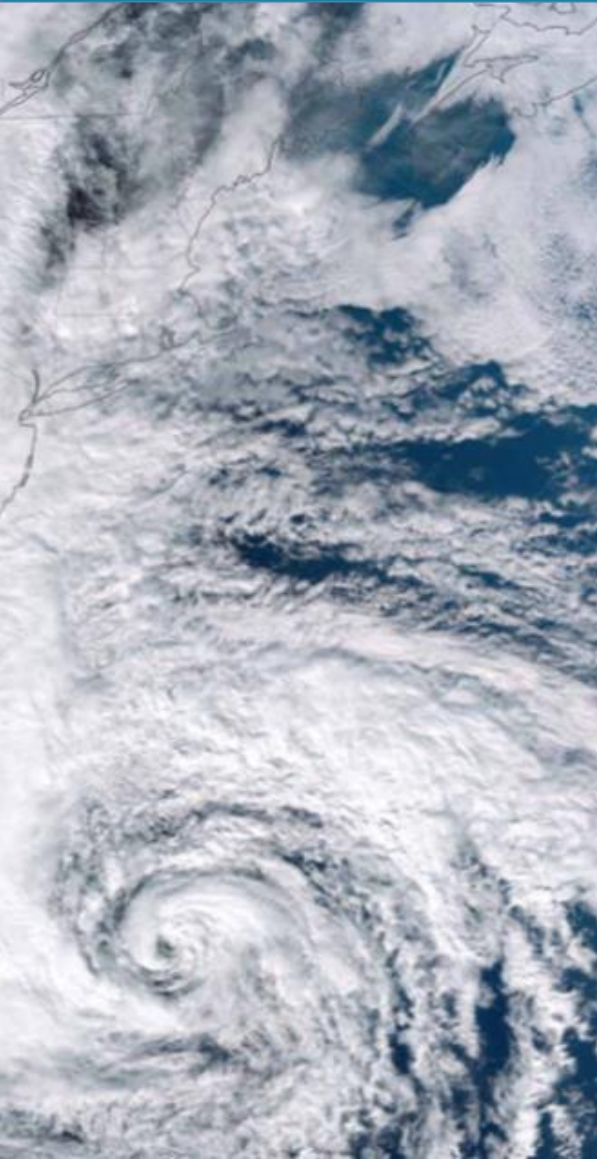




# Explore Science: Earth & Space



# STEM Focus



## **Disciplinary**

- Heliophysics
- Earth science
- Planetary science
- Astrophysics

## **Cross-disciplinary**

- Science, technology, and society

# Learning Framework

1. Experience Earth and space **PHENOMENA** and explore science findings.
2. Use the scientific **PROCESS** and reflect on science as a way of knowing.
3. **PARTICIPATE** in the scientific community and identify as a science learner.





# Design



## **Overall:**

- Inviting, appealing, and engaging
- Compatible with the exhibition design

## **Materials and maintenance:**

- Safe for visitors of all ages
- Easy to, set up, clean up, and store
- Consumables are inexpensive and readily available

## **Accessibility:**

- Universal Design approach
- Bilingual English and Spanish

## **Design principals:**

- Engaging
- Authentic
- Current
- Relevant

# Target Audiences



## **Public:** Informal and lifelong learners

- Museum audiences
  - Families with children ages 4-10
  - School groups K-6
  - Other museum visitors
- Underserved audiences
  - Museum visitors
  - Offsite programs

## **Professional:** Informal educators

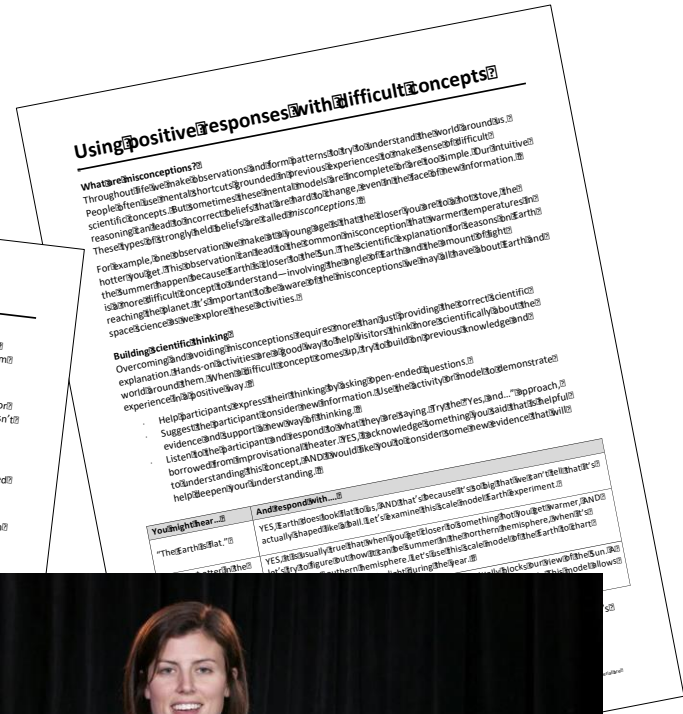
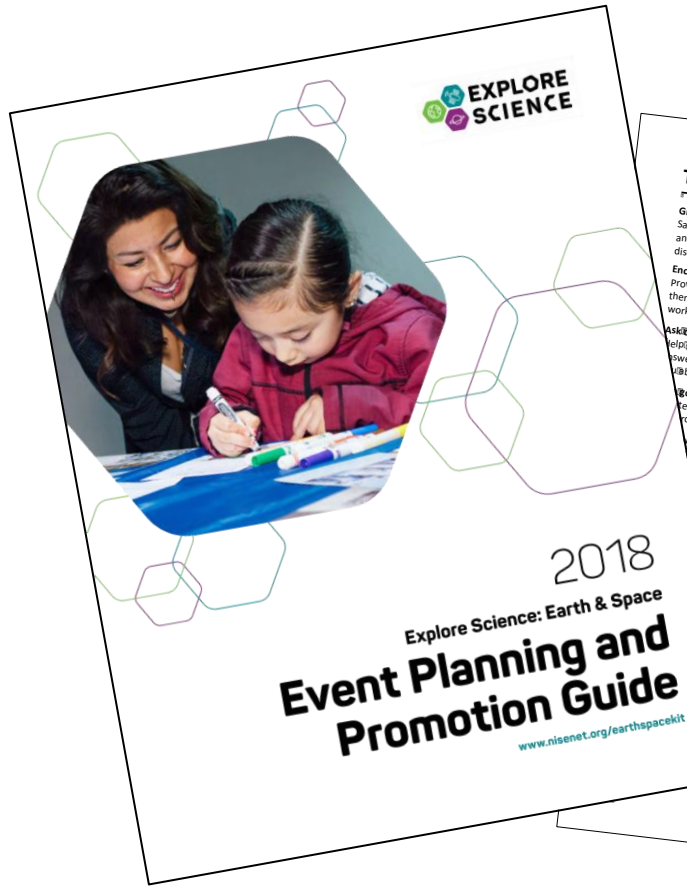
- Museum educators
- Educators in out of school settings

# Promotional Resources



Promotional materials, including banner, ads, poster, photos

# Planning and Training





# Exploring Earth: Paper Mountains



# Exploring the Solar System: Craters



# Exploring the Solar System: Hide and Seek Moon



# Exploring the Solar System: Magnetic Fields





# Exploring the Solar System: Mars Rovers



# Exploring the Solar System: Stomp Rockets



# Exploring the Solar System: Mars Rovers



# Exploring the Solar System: Exoplanet Transits

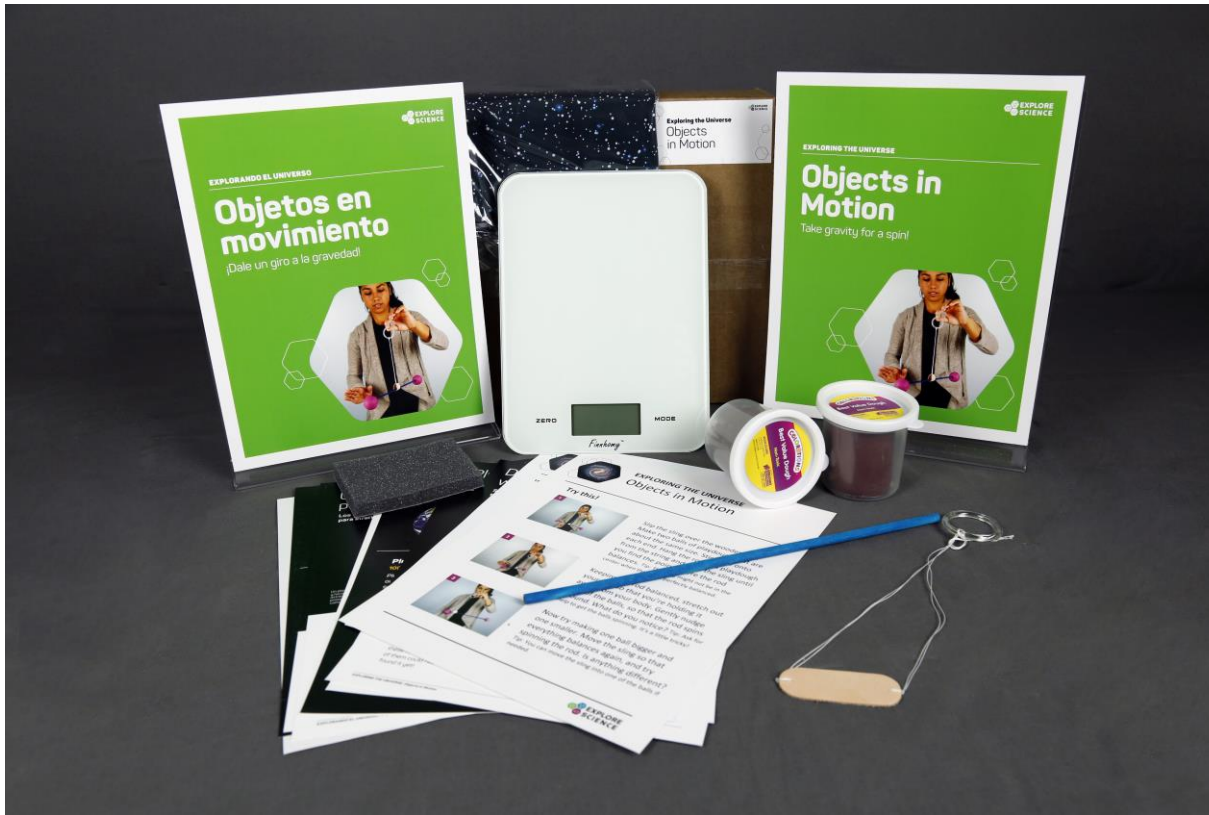




# Exploring the Solar System: Filtered Light



# Exploring the Solar System: Objects in Motion



# Exploring the Solar System: Pack a Space Telescope



# Events and Reporting



- If you received a physical toolkit
- Physical toolkit recipients are also required to complete an online survey report by June 15<sup>th</sup>, 2018.
- Reports will be shared this spring.



# Thank You + Questions



# Questions

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1. Share current plans or thoughts for your Explore Science: Earth & Space events, and discuss ways you might use the materials throughout the year.
2. What questions do you have for the development team about the activities or materials in the toolkit?

# Upcoming NISE Net Online Workshops

*All workshops 11am - 12pm PDT / 2 - 3pm EDT*

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The Science Behind the 2018 Toolkit – Earth and the Solar System

**Tuesday, Feb 27, 2018**

The Science Behind the 2018 Toolkit – Beyond the Solar System

**Tuesday, Mar 13, 2018**

NGSS and the Explore Science: Earth & Space Toolkit

**Tuesday, Mar 20, 2018**



# Recordings of Past Online Workshops

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***All available at: [nisenet.org/event-type/online-workshop](https://nisenet.org/event-type/online-workshop)***





ASTC CoP and NASA's "Universe of Learning" team at the Space Telescope Science Institute (STScI) is hosting a webinar series for informal science educators.

First webinar is tomorrow  
Wednesday, Feb 7 at 2:00 p.m. ET

***Register:***

***<https://register.gotowebinar.com/register/487008173109424899>***





# SUN EARTH UNIVERSE SOL TIERRA UNIVERSO

An engaging and interactive museum  
exhibition about Earth and space science  
for family audiences.



Application goes live **Thursday February 8, 2018**

<http://www.nisenet.org/sunearthuniverse>

**Applications due May 1, 2018**