

April Convening Agenda

DATES & TIMES

Tuesday, April 19, 2022 — 2:00 PM - 5:00 PM Eastern

Wednesday, April 20, 2022 — 2:00 PM - 5:00 PM Eastern

Thursday, April 21, 2022 — 2:00 PM - 5:00 PM Eastern

EARTH & SPACE PROJECT-BASED PROFESSIONAL LEARNING COMMUNITY

NISE Network's Earth & Space Project-Based Learning Community 2021-2022 supports museums and science centers across the U.S. in their efforts to make Earth & Space science relevant and inclusive for their local communities. This learning community provides a chance for us all to learn with and from each other and to support partner efforts in making Earth and space science relevant and inclusive for all our local communities.

- [More about the Earth & Space Professional Learning Community](#)
- [Professional learning community list of participants & organizations](#)

Agenda: Snapshot

Eastern	Tuesday April 19, 2022	Wednesday April 20, 2022	Thursday April 21, 2022
2:00 PM	Welcome Remarks (Zoom)	Plenary Keynote #3 (Zoom)	Plenary Keynote #4 (Zoom)
2:15 PM	Plenary Keynote #1 & #2 (Zoom)		
2:30 PM		NASA Resources Showcase Part 1 (Zoom & Vimeo)	Break
2:45 PM			Concurrent Session B (Zoom)
3:00 PM	Break	Break	
3:15 PM	Regional Meetings (SpatialChat)	NASA Resources Showcase Part 2 (SpatialChat)	Break
3:30 PM			Break
3:45 PM		Break	Concurrent Session C (Zoom)
4:00 PM			
4:15 PM	Free Networking (SpatialChat)	Concurrent Session A (Zoom)	Closing Remarks (Zoom)
4:30 PM			
4:45 PM			
5:00 PM	Adjourn	Adjourn	Adjourn

Agenda: Day One

TUESDAY, APRIL 19, 2022 (2:00 - 5:00 PM Eastern)

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|----------------|---|
| 2:00 - 2:15 PM | WELCOME & INTRODUCTIONS (Zoom)
Brad Herring & Paul Martin, NISE Network |
| 2:15 - 2:30 PM | PLENARY KEYNOTE #1 (Zoom)
Bringing the Perseverance Landing to the Deaf and Blind Community
Caitlin Ahrens, PhD, NASA Goddard |
| 2:30 - 2:45 PM | PLENARY KEYNOTE #2 (Zoom)
Improving Diversity, Equity, and Inclusion in Space Science
Derrick Pitts, HON.D, The Franklin Institute |
| 2:45 - 3:00 PM | PLENARY KEYNOTE Q/A (Zoom)
Moderated by Darrell Porcello, Children's Creativity Museum |
| 3:00 - 3:15 PM | BREAK |
| 3:15 - 4:15 PM | REGIONAL NETWORKING (SpatialChat) |
| 4:15 - 5:00 PM | FREE NETWORKING (SpatialChat) |

Agenda: Day Two

WEDNESDAY, APRIL 20, 2022 (2:00 - 5:00 PM Eastern)

- 2:00 - 2:05 PM **WELCOME (Zoom)**
Brad Herring, NISE Network
- 2:05 - 2:20 PM **PLENARY KEYNOTE #3 (Zoom)**
James Webb Space Telescope
[Christine Chen, Space Telescope Science Institute](#)
- 2:20 - 2:30 PM **PLENARY KEYNOTE Q/A (Zoom)**
Moderated by Darrell Porcello, Children’s Creativity Museum
- 2:30 - 3:00 PM **NASA RESOURCES SHOWCASE - PART 1 (Zoom & Vimeo)**
Video summary of showcase presenters introduced by Darrell Porcello,
Children’s Creativity Museum

Video of Showcase Resources (Vimeo): (30 minutes)
<https://vimeo.com/nisenet/nasaresourceshowcase2022>
- 3:00 - 3:15 PM **BREAK**
- 3:15 - 4:00 PM **NASA RESOURCES SHOWCASE - PART 2 (SpatialChat)**
Networking conversations
- 4:00 - 4:15 PM **BREAK**
- 4:15 - 5:00 PM **CONCURRENT SESSION A (Zoom)**
Session A1: Co-creation and You
Session A2: Working Well with Experts
Session A3: Working with K-12 Schools, Teachers, and Homeschoolers

Agenda: Day Three

THURSDAY, APRIL 21, 2022 (2:00 - 5:00 PM Eastern)

- 2:00 - 2:05 PM **WELCOME** ([Zoom](#))
Brad Herring, NISE Network
- 2:05 - 2:20 PM **PLENARY KEYNOTE #4** ([Zoom](#))
Engaging Indigenous Youth and Adults in
Community-Focused Efforts Around Climate Change
[Elena Sparrow, PhD, University of Alaska Fairbanks](#)
- 2:20 - 2:30 PM **PLENARY KEYNOTE Q/A** ([Zoom](#))
Moderated by Darrell Porcello, Children’s Creativity Museum
- 2:30 - 2:45 PM **BREAK**
- 2:45 - 3:30 PM **CONCURRENT SESSION B** ([Zoom](#))
Session B1: Connecting Meaningfully with Specific Communities
Session B2: Collaborating with Indigenous Communities
Session B3: Collaborating with Libraries
- 3:30 - 3:45 PM **BREAK**
- 3:45 - 4:30 PM **CONCURRENT SESSION C** ([Zoom](#))
Session C1: Approachable Ideas to Address Extreme Weather
Session C2: Stories of Community Collaborations
Session C3: Earth and Space for Everyone: Developing Materials and
Partnering with Deaf and Blind Communities
- 4:30 - 5:00 PM **CLOSING REMARKS** ([Zoom](#))
Allison Anderson, Museum of Science, Boston
Brad Herring, Museum of Life and Science
Rae Ostman, Arizona State University

Concurrent Session A

WEDNESDAY, APRIL 20, 2022 (4:15 - 5:00 PM Eastern)

Session A1: Co-creation and You

Moderator: *Brad Herring, Museum of Life and Science, Durham, NC*

Josh Sarver, COSI, Columbus, OH

Amy Sayle & Nick Eakes, Morehead Planetarium, Chapel Hill, NC

Jill Kary, Arkansas State University Museum, Jonesboro, AR

Peregrine Bratschi & Stepheny Hine, Museum of Life and Science, Durham, NC

Session A2: Working Well with Experts

Moderator: *Darrell Porcello, Children's Creativity Museum, San Francisco, CA*

Martha Regester, Greensboro Science Center, Greensboro, NC

Victoria Mitchell, Exploration Place, Wichita, KS

Jacque Benitez, California Academy of Sciences, San Francisco, CA

José Cotayo, Museum of Science and Industry, Tampa, FL

Zak Allen, North Dakota Gateway to Science, Bismarck, ND

Session A3: Working with K-12 Schools, Teachers, and Homeschoolers

Moderator: *Dean Frias, Arizona State University, Tempe, AZ*

Ellie Daniel, Memphis Museum of Science and History, Memphis, TN

Chip Lindsey, Discovery Lab, Tulsa, OK

Yasmin Santiago, Arecibo Observatory, Arecibo, PR

Rosalie Wade, Frontiers of Flight Museum, Dallas, TX

Jolie Pelds, Science Center of Iowa, Des Moines, IA

Concurrent Session B

THURSDAY, APRIL 21, 2022 (2:45 - 3:30 PM Eastern)

Session B1: Connecting Meaningfully with Specific Communities

Moderator: *Christina Leavell, Science Museum of Minnesota, Saint Paul, MN*

Chase Fischer, Discovery Center Museum, Rockford, IL

Liz Leahey, Discovery Museums, Acton, MA

Ben LaPoint, The Children's Museum at Saratoga, Saratoga Springs, NY

Annie Gordon, Sciencenter, Ithaca, NY

Caitlin Luttjohann, Kansas Children's Discovery Center, Topeka, KS

Session B2: Collaborating with Indigenous Communities

Moderator: *Cecilia Nguyen, Oregon Museum of Science and Industry, Portland, OR*

Lauren Butcher, Explora Science Center and Children's Museum, Albuquerque, NM

Kristine Heinen, South Dakota Discovery Center, Pierre, SD

Suzanne Phillips, Challenger Learning Center of Alaska, Kenai, AK

Ben Muhlestein, Canyon Country Discovery Center, Monticello, UT

Session B3: Collaborating with Libraries

Moderator: *Catherine McCarthy, Arizona State University, Tempe, AZ*

Natalia Tooley, Cincinnati Observatory, Cincinnati, OH

Megan Pratt, Pensacola MESS Hall, Pensacola, FL

Ime Edokpayi, The Lawrence Hall of Science, Berkeley, CA

Jake Murphy, Long Island Explorium, Port Jefferson, NY

Concurrent Session C

THURSDAY, APRIL 21, 2022 (3:45 - 4:30 PM Eastern)

Session C1: Approachable Ideas to Address Extreme Weather

Moderator: *Frank Kusiak, The Lawrence Hall of Science, Berkeley, CA*
Sara Benson, Museum of Science, Boston, MA
Stacey Forsyth, CU Science Discovery, Boulder, CO
Christopher White, Terry Lee Wells Nevada Discovery Museum, Reno, NV
Rebekah Domayer, The Iowa Children's Museum, Coralville, IA

Session C2: Stories of Community Collaborations

Moderator: *Alyssa Johnson, Sciencenter, Ithaca, NY*
Andy Micciche & Christyne Matyseck, Children's Museum of Virginia, Portsmouth, VA
Seth Mayo, Museum of Arts & Sciences, Daytona Beach, FL
Julia Gerringer, The Children's Museum of Wilmington, Wilmington, NC

Session C3: Earth & Space Science for Everyone: Developing Materials and Partnering with Deaf and Blind Communities

Moderator: *Ali Jackson, Sciencenter, Ithaca, NY*
Ellen Reinecke & Sammy Baker, Robinson Nature Center, Columbia, MD
Greg Andrews, Sci-Port Discovery Center, Shreveport, LA
Jenny Roe, Imagination Station, Toledo, OH
Dave Dooling, New Mexico Museum of Space History, Alamogordo, NM

NASA Resource Showcase

For more information about each NASA Science Activation resource listed below, please refer to the [NASA Showcase Presenters and Resources](#) document.

Video of Showcase Resources (Vimeo): (30 minutes)

<https://vimeo.com/nisenet/nasaresourceshowcase2022>

- OpenSpace/American Museum of Natural History
- Infiniscope/Arizona State University
- NASA's Night Sky Network
- NASA Earth Science Education Collaborative (NESEC)
- NASA Solar System Treks/ NASA JPL & NASA Ames
- NASA Heliophysics Education Activation Team
- NASA's Museum & Informal Education Alliance
- Solar System Ambassadors
- NASA's Eyes
- NASA eClipsTM/National Institute of Aerospace
- NASA's Universe of Learning
- James Webb Space Telescope Resources
- Scientific Visualization Studio/NASA Goddard Space Flight Center
- NASA Astromaterials
- Eclipse Soundscapes: Citizen Science Project
- Exploratorium: Navigating the Path of Totality
- NASA Space Place
- NASA Artemis

Professional Learning Community

Goals & Outcomes

The NISE Network Earth & Space project-based professional learning community is focused on making Earth & space Science relevant and inclusive for local communities.

Overarching Goals

- **Engage multiple and diverse public audiences in STEM learning**, focusing on essential concepts and practices, and highlighting NASA SMD missions and research.
- **Improve the knowledge and skills of informal educators** to deliver effective and authentic educational experiences related to Earth and space sciences.
- **Encourage local partnerships** to create sustainable STEM partnerships in local communities across the United States, amplifying the impact of individual organizations and projects and helping the Network to reach historically marginalized audiences.

Goal for Participants

- Increase the capacity of participants to engage diverse public audiences in Earth and space science.
- Increase the capacity of participants to integrate relevancy and inclusive practices into project planning and implementation to promote a more equitable STEM future.
- Increase participants' connections to each other and foster a sense of belonging in the NISE Network.

Outcomes for Participants

- Participants are able to make meaningful progress on their own local project.
- Participants feel more confident making Earth and space science relevant to and inclusive of diverse learners.
- Participants feel more confident in their ability to incorporate diversity, equity, access, and inclusion principles, practices, and resources into their programmatic offerings.
- Participants become more aware of / utilize professional resources and educational products from NISE Network, NASA, and other sources.
- Participants are able to share their own experiences and learn from other partners' experiences.
- Participants identify with a community of professionals working to broaden participation in STEM engagement and learning.

Thank You

We would like to extend our thanks to all professional learning community participants for taking part in this 7-month professional development opportunity. We're delighted to have so many partners and collaborators join us from the NISE Network and NASA Science Activation for this special online convening. We would also like to acknowledge the ongoing support of the NASA Science Mission Directorate, particularly our technical officer, Kristen Erickson.

The NISE Network Earth & Space professional learning community team:

Paul Martin

*Principal investigator
Arizona State University*

Christina Leavell

*Midwest regional hub leader
Science Museum of Minnesota*

Brad Herring

*Southeast regional hub leader
Museum of Life and Science*

Catherine McCarthy

*Co-investigator
Arizona State University*

Ali Jackson

*Northeast regional hub leader
Sciencenter*

Rae Ostman

*Co-investigator
Arizona State University*

Allison Anderson

*Project Evaluator
Museum of Science, Boston*

Darrell Porcello

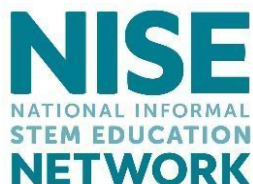
*Co-investigator
Children's Creativity Museum*

Frank Kusiak

*West regional hub leader
Lawrence Hall of Science*

Cecilia Nguyen

*Senior Exhibit Developer
Oregon Museum of Science and Industry*



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