NISE Network Online Workshop

Activating Outdoor Spaces - Pocket Parks, Pollinator Gardens, and More! Tuesday, June 13, 2023



Today's Presenters:

Nicholas Weller, Arizona State University

Emily Landis, Lancaster Science Factory

Chloe Doucette, Museum of Idaho

Kim Kleven, Children's Museum of Southern Minnesota

Janet White, Museum of Science and Industry (MOSI)

Lee Robinson, Muse Knoxville



Welcome! 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 <u>Chat Box</u> 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

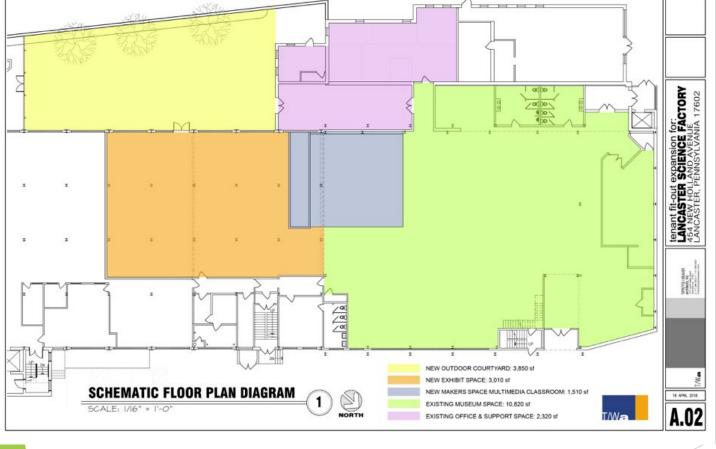


- Hands-on activities and other public engagement resources
- Additional sustainability resources (annual events, UN Sustainable Development Goals, exhibit design, and more)
- Professional learning resources (training materials, guides, etc.)

www.nisenet.org/sustainability-resources

Science Factory Outdoor Courtyard Renovation









Theme: Environmental Sustainability



Planning Partners:

- Lancaster Conservancy
- Chesapeake Bay Foundation
- City of Lancaster Stormwater Dept
- 4. Pennsylvania College of Art & Design
- 5. Kidzibits
- 6. Landscape Architect
- 7. Funders

















Key Elements:

100' Mural of Watershed Stormwater Exhibit Solar Exhibit Rain Garden & Herb Garden Whisper Dishes Kinetic Tree Sculpture Interpretive Signage Panels (10) **ADA Pathway River Benches**

















Pennsylvania's Major Watersheds

A watershed is an area where all of the water that falls eventually drains to the same place. It's like your kitchen sink; no matter what part of the sink you pour the water into, eventually it will all go down the same drain. Most rain that hits the ground works the same way, with hills and mountains acting like the sides of a sink, and rivers acting like its drain.

in Pennsylvania, there are four major watersheds (kitchen sinks). Each one includes major rivers, and flows into an estuary and finally the ocean. They are...

Chasapsaks Bay

- * North Branch Susquaharma Rover / Chamung River
- + West Branch Susquehanna River | Pine Greek . Lower Sunguehanna River
- Juniata River & Potomes River

Delaware Bay

* Upper Delaware Plyar

Labligh Pilyar . Lower Delevers River Schuzikili River

Gulf of Saint Lawrence

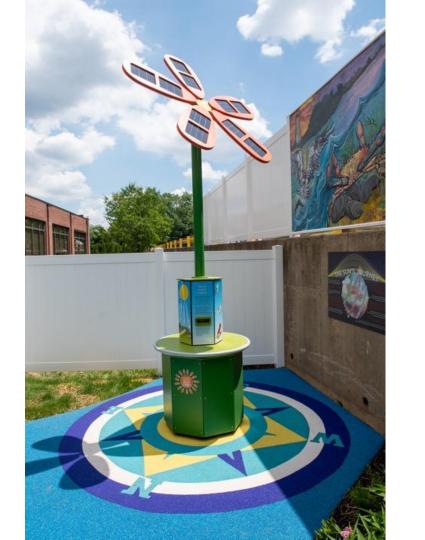
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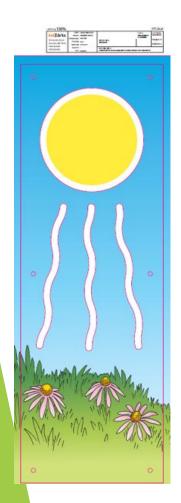
Gulf of Mexico . Alleigherty Street Littleton Whee

* Monongahala Rivaci. a Chile River of Business River.

Can you identify the major watersheds on the map? Which watershed are you in right now? How about Philladelphia? Pittaburgh? Erle?

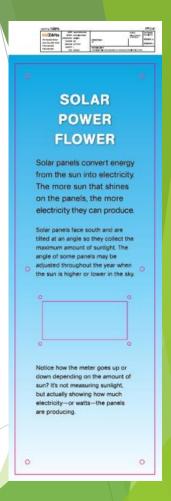












Outputs: LED sun, kinetic spinner flowers, bird sounds, watt meter













COLLECT TO PROTECT

Sometimes big storms cause our stormwater system to overflow and pollute the watershed. This water storage tank—also called a cistern is one way we help keep the watershed clean.

The cistern collects rainwater from our roof and we use it to water our plants. Sprinkled over our gardens, the rainwater slowly seeps into the soil and pollutants are filtered out by dirt and roots. Eventually the water makes its way into local streams, flows into the Conestoga and Susquehanna Rivers, and ends its journey in the Chesapeake Bay.

By collecting rainwater and using it in our garden, instead of letting it go directly into the sewer, we're helping keep pollutants out of the watershed.

This 830 gallon cistern has the capacity to collect 127,000 gallons of rainwater per year!

KEEP OUR WATERSHED HEALTHY AT HOME:

- Use rain barrels attached to a downspout
- Replace grass and pavement with native plants and trees
- Install a rain garden to collect runoff













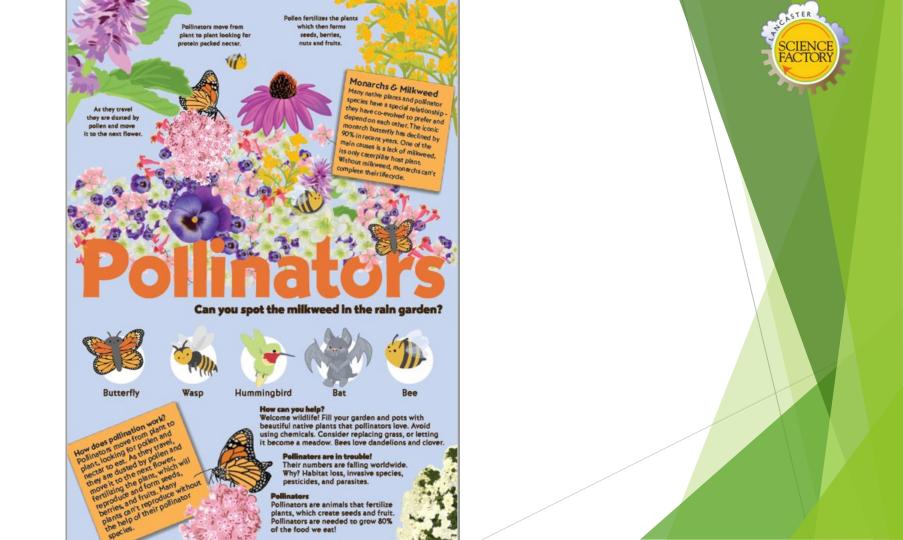


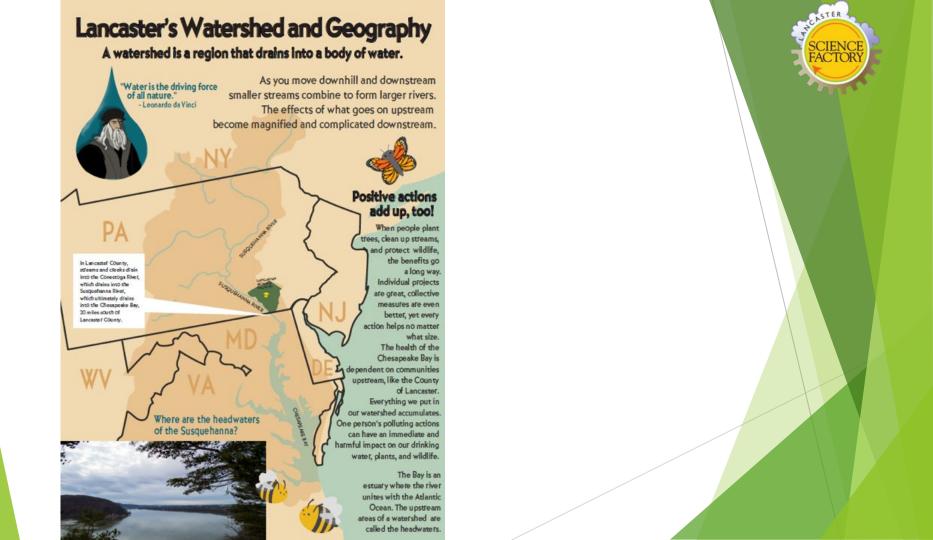














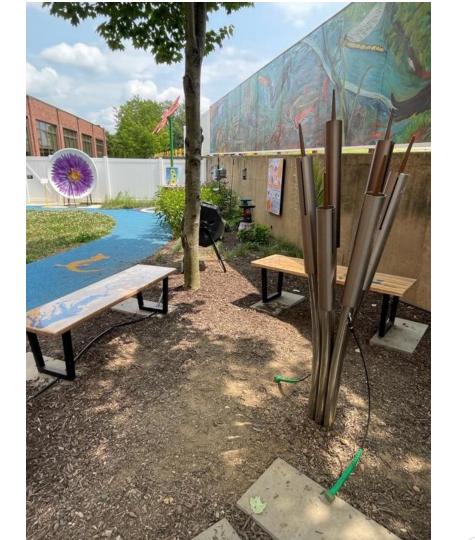




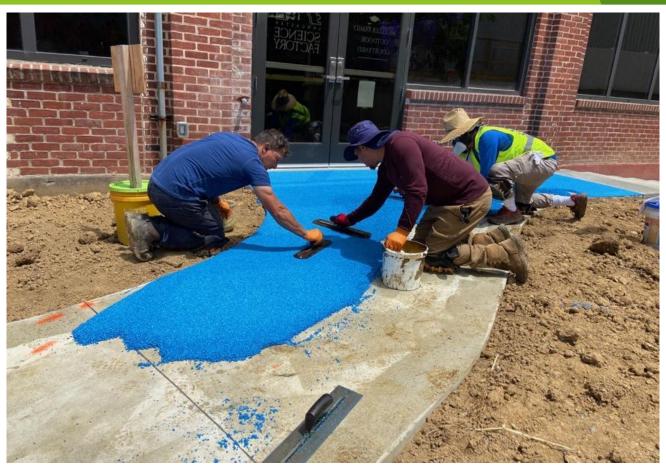




















Thank you!



Activating Outdoor Spaces- Pocket Park

- Mission: Inspiring wonder and discovery about Idaho and our world through science and the humanities
- Vision: Bringing the world to Idaho, and Idaho to the world
- Values: Sustainability, Professionalism, Inclusion, Connection, Exploration





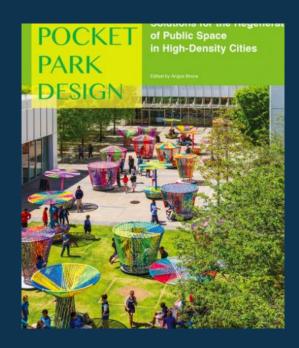
Why a Pocket Park?

MOI is right on the edge of Idaho Falls' historic downtown district. This space was underutilized and we saw/ still see the potential to share this space with the community in a way that is meaningful and that increases community connection.

Inspiration came from:

- VIS
- MOI's emphasis on place-based programming
- MOI's Discovery Room
- Other museums (esp. Museum of Life + Science)





What has been done?

Picnic tables (3) and community gardening

- Partnership with the city of Idaho Falls

Free Little Art Gallery (FLAG)

 Partnership with Idaho Falls Downtown Development Commission

Grants submitted for additional funding to add play structures, swinging benches, and "nature play" inspired activities.

- First grant submission was unsuccessful, second grant submission was just done.

MUSEUM IDAHO









Barriers

- Cost
- Time management
- Concern regarding safety and adaptability

Successes

- Partnerships
- Staff buy in
- New leadership developing "campus plan"



Vision for the park...

- Mammoth slide
- Nature play
- More native plants with signage
- Swinging benches
- Community focused programming







Pollinator Programming

and Butterfly House

Our Mission is to ignite the natural curiosity of every child through the power of play in awe-inspiring environments indoors and out.



CHILDREN'S MUSEUM OF SOUTHERN MINNESOTA



www.cmsouthernmn.org

- BUTTERFLY HOUSE
- PRAIRIE GARDEN
- WEEKLY PROGRAM
- TRAINING OPPORTUNITIES
- SUPPORTING ENVIRONMENT

CHILDREN'S MUSEUM OF SOUTHERN MINNESOTA

Pollinator Experience



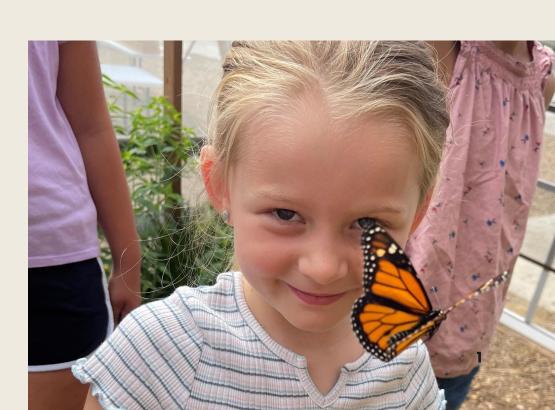


Monarch Larva Monitoring Program

Monarch Way Station



www.cmsouthernmn.org





CHILDREN'S MUSEUM OF SOUTHERN MINNESOTA



www.cmsouthernmn.org



Thank You!



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Museum of Science and Industry (MOSI) Tampa, Florida

Backwoods Nature Preserve





MOSI Backwoods

- Backwoods Preserve is 25 acres
- Walking Trails
- Four Distinct Areas:
 - Sandhill Area
 - Wetlands Area
 - Pine Flatwoods
 - Oak Hammock Area







Why is it important?

- Trail and tours of these habitats provide guests a renewed appreciation for some of Florida's most sensitive and beautiful habitats.
- MOSI hopes to foster a greater respect through education for Florida's rapidly vanishing habitats.
- As Tampa's population continues to grow, many of the remaining natural areas are being developed.





Programming

*Guided hikes for field trips

*Wetland Wonders Program

*Scout Programs

*Camps

*Guests can do self-guided trail walks









Program Topics

- Invasive plants
- Sustainability
- Inaturalist
- Wetlands Filtration
- Annual Water Days Celebration









Strategies

- Added signage for guests when they do self-guided trail walks
- Keep trails cleaned up







Strategies

Other Campus strategies

- After hours our campus is locked
- Provide paper and QR code with map of backwoods







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Water Days















Some of our friends...



















Our Vision

To create a beautiful space to educate children and the adults who love them, about politators and the importance they play in our lives.



Our timeline





Our first conversation took place fall of 2019



Took part in the sustainability fellowship early 2021





May 2023

Before:







Happening now!



Groundbreaking Day







Bee Sculpture



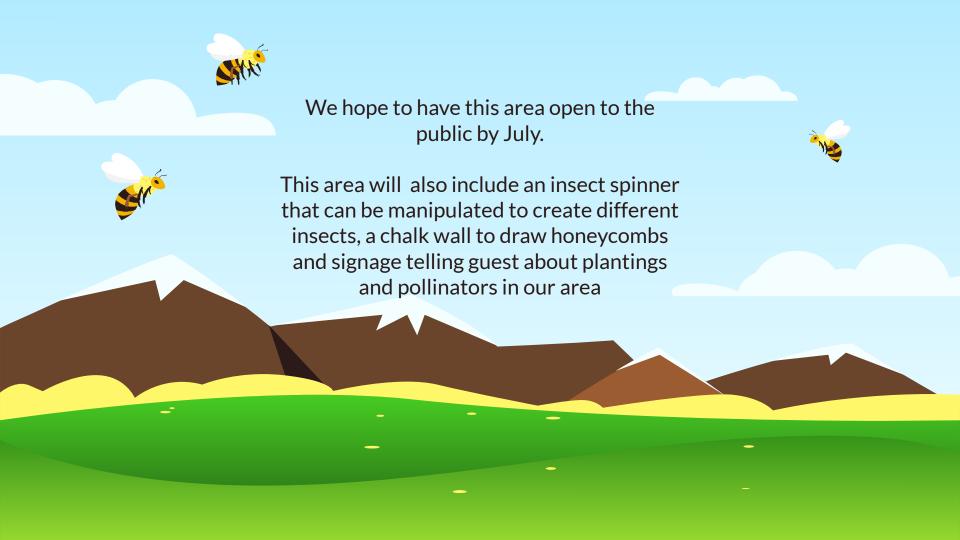














Thanks!

Questions?



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Q&A

Use the raise hand feature or type your question in the chat



Resources & Opportunities



Learn more and access the NISE **Network's online digital resources:** nisenet.org/browse-topic



Read our monthly newsletter

nisenet.org/newsletter

Follow NISE Net on social networking















2023 Online Workshops

Bubbling Up later this Year... 😹

Murals and Museums

Tuesday, July 18, 2023 2pm-3pm Eastern / 11am-12pm Pacific

Sustainability Planning

August - TBA

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



nisenet.org/events



Thank You





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