

# COLLABORATIONS

## Partnerships in unusual places

Places of worship, prisons, the beach, and canoes

Best practices, strategies, and resources for local partnerships



Created by Aldric Rodriguez  
from Noun Project



Created by Cristiano Zoucas  
from Noun Project



Created by ProSymbols  
from Noun Project



Created by Chrystina Angeline  
from Noun Project

**NISE**  
NATIONAL INFORMAL  
STEM EDUCATION  
**NETWORK**

NISE Network Partner Meeting  
Tempe, Arizona February 2019

[www.nisenet.org](http://www.nisenet.org)

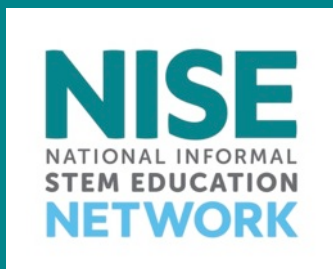


EXPLORE SCIENCE  
**Earth & Space**

# Presenters

- **Catherine McCarthy,**  
Science Museum of Minnesota, Saint Paul, MN
- **Alan Brown,**  
Sci-Port Discovery Center, Shreveport, LA
- **Derrick Pitts,**  
The Franklin Institute, Philadelphia, PA
- **Samantha Sands,**  
Denver Museum of Nature & Science, Denver, CO
- **Charlie Gibson,**  
Michigan Science Center, Detroit, MI





# NISE Network Tools for Collaboration and Community Partnerships



**Catherine McCarthy**

Project Leader

Science Museum of Minnesota

Saint Paul, Minnesota

[cmccarthy@smm.org](mailto:cmccarthy@smm.org)



Created by priyanka  
from Noun Project

NISE Network Partner Meeting  
Tempe, Arizona February 2019

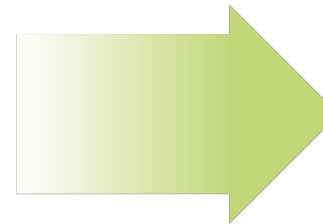
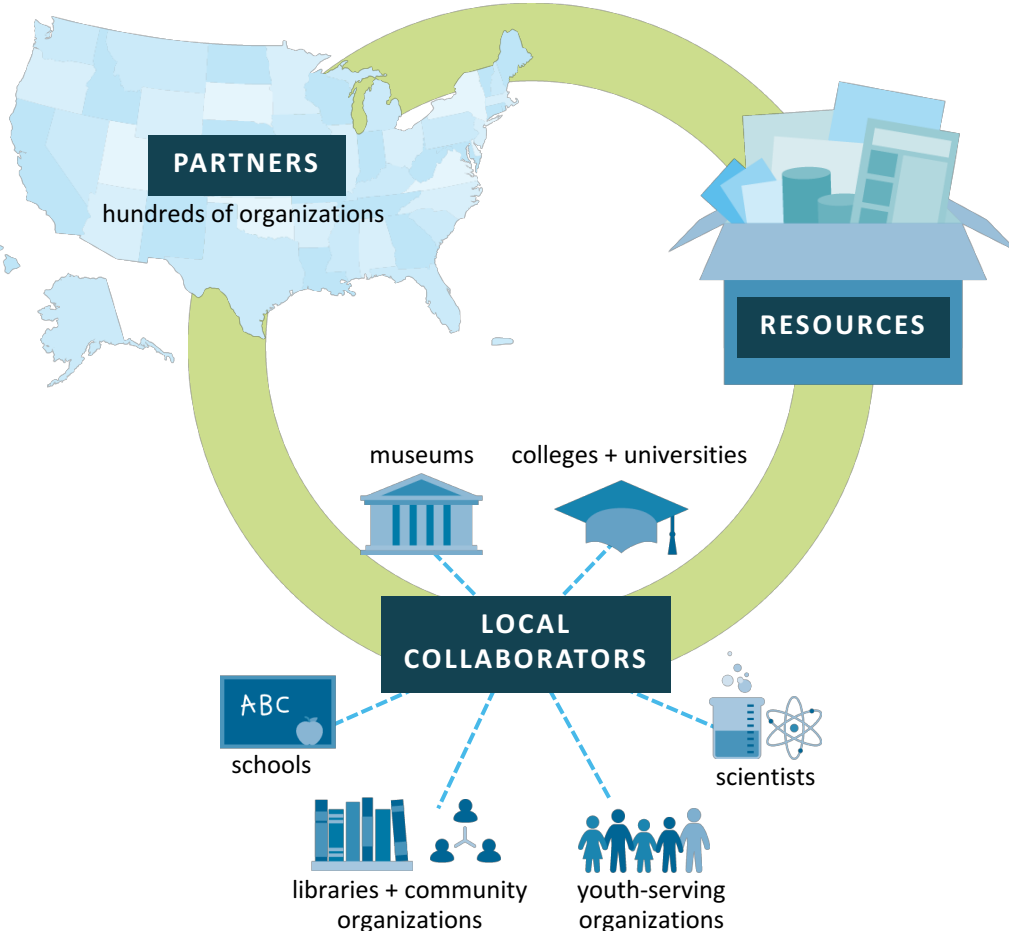
[www.nisenet.org](http://www.nisenet.org)

# How NISE Network Works

Through our national collaborative **NETWORK**

We create, refine, and disseminate **EDUCATIONAL PRODUCTS** and **PROFESSIONAL DEVELOPMENT RESOURCES**

In order to **INCREASE THE CAPACITY** of informal educators



to **ENGAGE PUBLIC AUDIENCES** in STEM learning



# Local Collaborations



We encourage our partners to collaborate locally in their communities to engage their audiences.



Accessing  
Complementary  
Talents



Building  
Community Spirit



Complex Problems  
Require Cross-  
Disciplinary  
Approaches



Developing More  
Relevant and  
Effective  
Solutions



Eliminating Waste  
and Duplication of  
Effort



Fostering  
Innovative Ideas,  
Approaches, and  
Solutions



Getting a Whole  
Lot More Done



Higher Level of  
Commitment to  
Action



Ineffective  
Approaches to  
Solving Problems



Joint Forces  
are Better  
Than Single  
Players



Key to Success



Life is More Fun  
When We Work  
Together



More Sharing of  
Ideas and  
Opportunities



Nature of Work  
Has Changed



Overcoming  
Breakdowns in  
Working  
Relationships



Persistent Multi-  
Dimensional  
Problems



Quicker Access to  
Resources in  
Emergency  
Situations



Resources are  
Decreasing in the  
Face of Increasing  
Demands



Stimulating New  
Ideas



Transforming Lose-  
Lose Outcomes into  
Win-Win Ones



Unity of Teams  
Keeps Up the  
Spirit of Good  
Work



Victory is  
better  
together



Wicked Social  
Problems Can Be  
Resolved through  
Collaboration



X-ing Different  
Approaches will  
Result in Better  
Solutions



You and I Achieve  
Greater Progress  
Together



More Time to  
Catch Some  
*Zzzz's*

# Why Collaborate?

A

Accessing  
Complementary  
Talents

B

Building  
Community Spirit

C

Complex Problems  
Require Cross-  
Disciplinary  
Approaches

D

Developing More  
Relevant and  
Effective  
Solutions

E

Eliminating Waste  
and Duplication of  
Effort

F

Fostering  
Innovative Ideas,  
Approaches, and  
Solutions

G

Getting a Whole  
Lot More Done

H

Higher Level of  
Commitment to  
Action

I

Ineffective  
Approaches to  
Solving Problems

J

Joint Forces  
are Better  
Than Single  
Players

K

Key to Success

L

Life is More Fun  
When We Work  
Together

M

More Sharing of  
Ideas and  
Opportunities

N

Nature of Work  
Has Changed

O

Overcoming  
Breakdowns in  
Working  
Relationships

P

Persistent Multi-  
Dimensional  
Problems

Q

Quicker Access to  
Resources in  
Emergency  
Situations

R

Resources are  
Decreasing in the  
Face of Increasing  
Demands

S

Stimulating New  
Ideas

T

Transforming Lose-  
Lose Outcomes into  
Win-Win Ones

U

Unity of Teams  
Keeps Up the  
Spirit of Good  
Work

V

Victory is  
better  
together

W

Wicked Social  
Problems Can Be  
Resolved through  
Collaboration

X

X-ing Different  
Approaches will  
Result in Better  
Solutions

Y

You and I Achieve  
Greater Progress  
Together

Z

More Time to  
Catch Some  
Zzzzz's

# Why Collaborate?

To achieve something you can't do on your own!





Accessing  
Complementary  
Talents



Building  
Community Spirit



Complex Problems  
Require Cross-  
Disciplinary  
Approaches



Developing More  
Relevant and  
Effective  
Solutions



Eliminating Waste  
and Duplication of  
Effort



Fostering  
Innovative Ideas,  
Approaches, and  
Solutions



Getting a Whole  
Lot More Done



Higher Level of  
Commitment to  
Action



Ineffective  
Approaches to  
Solving Problems



Joint Forces  
are Better  
Than Single  
Players



Key to Success



Life is More Fun  
When We Work  
Together



More Sharing of  
Ideas and  
Opportunities



Nature of Work  
Has Changed



Overcoming  
Breakdowns in  
Working  
Relationships



Persistent Multi-  
Dimensional  
Problems



Quicker Access to  
Resources in  
Emergency  
Situations



Resources are  
Decreasing in the  
Face of Increasing  
Demands



Stimulating New  
Ideas



Transforming Lose-  
Lose Outcomes into  
Win-Win Ones



Unity of Teams  
Keeps Up the  
Spirit of Good  
Work



Victory is  
better  
together



Wicked Social  
Problems Can Be  
Resolved through  
Collaboration



X-ing Different  
Approaches will  
Result in Better  
Solutions



You and I Achieve  
Greater Progress  
Together



More Time to  
Catch Some  
*Zzzz's*

# Why Collaborate?

1. To share resources, expertise, and connections
2. To build upon existing strengths
3. To reach new audiences

# Guide



**MUSEUM & COMMUNITY PARTNERSHIPS:**

## Collaboration Guide

*For museums working with community youth-serving organizations*

By Catherine McCarthy and Brad Herring



Available at [www.nisenet.org/collaboration-guide](http://www.nisenet.org/collaboration-guide)



# Companion Video

## Creating Successful Collaborations: Museum and Community Partnerships



Available at [www.nisenet.org/collaboration-guide](http://www.nisenet.org/collaboration-guide)

<https://vimeo.com/139256428>



# Tools and Templates

## Template MOUs & emails

**SAMPLE TEMPLATE**  
**MEMORANDUM OF UNDERSTANDING (MOU)**  
between

\_\_\_\_\_ (Organization A)

and

\_\_\_\_\_ (Organization B)

**Preamble:**  
The purpose of this Memorandum of Understanding (MOU) is to clarify the expectations, roles, and responsibilities of the collaboration between our two organizations (Parties) on **PROJECT XXXXXX** (Project). This is not a legally binding agreement.

**Intent to Collaborate**  
It is the intent of the Parties to jointly collaborate on the implementation of the Project.

**Background**  
The Project has the following purpose:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Timeline:**

- The overall project will take place between **Date** and **Date**.

The Project has the following key milestones

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Roles and Responsibilities**

**Both organizations will:**

- Communicate as needed about the implementation and progress of the project
- \_\_\_\_\_
- \_\_\_\_\_

**Organization A will provide:**

- Training/orientation (where/when): \_\_\_\_\_
- Activities/Implementation: (where/when/what)

Museum & Community Partnerships

## Collaboration Tips



### Why collaborate? To achieve something you can't do on your own!

- To share resources, expertise, and connections
- To build upon existing strengths
- To reach new audiences

### Be patient! Collaboration takes time

- Start small; developing a relationship and building trust takes time
- Communicating takes time: your organizations have different cultures and terminology
- Always keep the long-term relationship in mind while working on shorter-term projects

### Be clear about your goals and expectations. Discuss who, what, when, where and why.

- What: Decide on your common goals; be sure your partnership is mutually beneficial
- How: Agree upon activities to meet your shared goals and missions
- Who: Clarify your roles and responsibilities for all project activities
- Where: Decide upon the locations of activities
- When: Agree upon a timeline and key dates, and check in regularly

### Get to know each other. Each partner has a lot to learn and a lot to offer.

- Familiarize yourself with your partner organization through websites, newsletters, events, and other opportunities
- The more you understand about each others' purpose, activities, audiences, and culture, the easier your partnership will be
- Individuals come to a partnership with different strengths and experiences; every group needs dreamers, developers, and doers

### Communication is critical!

- Strive to achieve a flexible trusting atmosphere; be open and honest while still being tactful and supportive
- Things may not always go smoothly, so don't hesitate to pick up the phone and have an frank conversation to work things out
- Involve more than one contact person at each organization at different levels to ensure a deeper relationship that can survive changing circumstances and turnover

### Stay focused on your goals. And don't forget to celebrate your successes!

- Reflect on your partnership and project based on your original goals, and consider how you want to improve, change course, or evolve the relationship
- As you work together keep your long-term relationship in mind; by leveraging your combined resources and strengths, you can each do much more for your community

Watch for a more comprehensive guide to collaborations between museums and community organizations in the Explore Science kit!

# Profiles of Youth Serving Organizations

## 4-H

---

### ABOUT

4-H is a global network of youth organizations whose mission is engaging youth to reach their fullest potential while advancing the field of youth development. 4-H is the youth development program of our nation's Cooperative Extension System & USDA. The 4-H name represents four personal development areas (head, heart, hands, and health) that members work on through fun and engaging programs.

### AUDIENCE AND GEOGRAPHIC REACH

4-H is the nation's largest youth development organization, empowering six million young people throughout all 3,007 counties of the United States. Through America's 110 land-grant universities and its Cooperative Extension System, 4-H reaches every corner of our nation—from urban neighborhoods to suburban schoolyards to rural farming communities. 4-H has a network of more than 611,800 volunteers, 3,500 professionals, and more than 25 million alumni. In most states, kids can join 4-H if they're between the ages of 8 and 18; some states offer programs for younger children.

### WEBSITE

- <http://www.4-h.org>

### FINDING A LOCAL PARTNER

There are 4-H programs in every county in the United States:

- <http://www.4-h.org/get-involved/find-4-h-clubs-camps-programs/>

### STEM FOCUS AND RESOURCES

4-H has a long history of “learn by doing” and focuses on many topics including: robotics, alternative energy, engineering, environmental science, ag-science, and veterinary science.

- Science programs: <http://www.4-h.org/youth-development-programs/4-h-science-programs/>
- Curriculum: <http://www.4-hmall.org/Category/educationresources.aspx>
- Science training resources: <http://www.4-h.org/resource-library/professional-development-learning/science-training-guides-resources/>
- Science checklist: <http://www.4-h.org/Professional-Development/Content/Science/Building-Understanding/4-H-Science-Checklist.dwn>
- Online STEM professional development: <http://www.click2sciencepd.org/>

### TIPS FOR COLLABORATION

- *Ongoing*: Collaborate with a local 4-H club leader to plan activities within the regular club structure, location, and activities; this can providing opportunities for repeat visits with the same children
- *Special event*: Collaborate with a local 4-H club for a special event at the museum or another location

## National Youth Serving Organizations

1. 4-H
2. Afterschool Alliance
3. Boys & Girls Clubs of America
4. Boy Scouts of America
5. Girls Inc.
6. Girl Scouts
7. Libraries
8. National Girls Collaborative Project
9. Parent Teacher Association (PTA)
10. Y (YMCA)
11. YWCA

# Illustrative Stories and Advice

*“Community organizations and museums have a common interest, they both want to make their cities a better place. Science is an essential part of that.”*



*- Jayatri Das, Chief Bioscientist, The Franklin Institute, Philadelphia, PA*



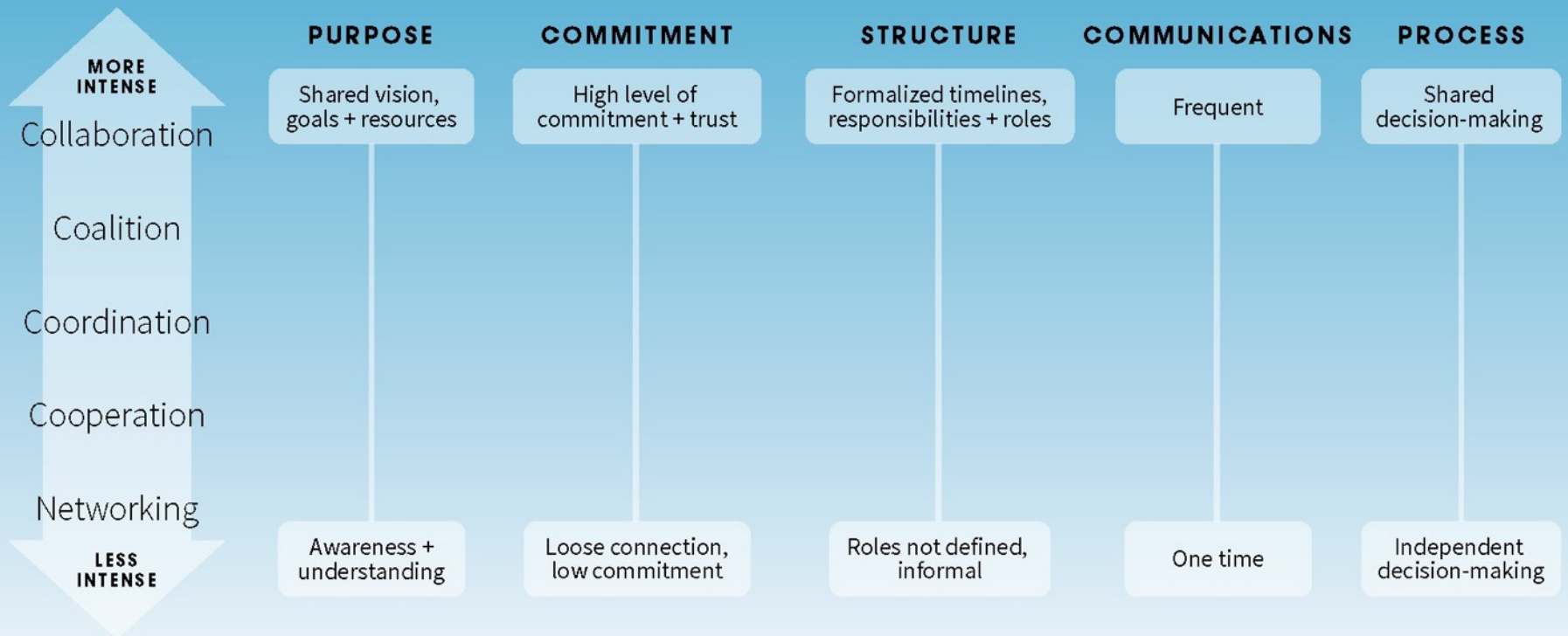
*“You always have to be open about what is working, what is not working, why it didn't work, and why is it successful. Communication is the key to making a good partnership work.”*

*- Dorothy McCargo Freeman, Associate Dean and State 4-H Director, University of Minnesota Extension Center for Youth Development, Saint Paul, MN*

# Levels of Partnerships - Continuum

## Different intensity at different times

### PARTNERSHIP CONTINUUM AND CHARACTERISTICS



# Tips for Successful Partnerships

## **Be patient! Collaboration takes time**

- Start small; developing a relationship and building trust takes time
- Communicating takes time: your organizations have different cultures and terminology
- Always keep the long-term relationship in mind while working on shorter-term projects
- Start early; your partner's schedule will vary from your own, so be sure to include enough lead time so that you both can be prepared for the work of the collaboration

# Tips for Successful Partnerships

## Setting goals and expectations

- **What:** Decide on your common goals; be sure your partnership is mutually beneficial
- **How:** Agree upon activities to meet your shared goals and missions
- **Who:** Clarify your roles and responsibilities for all project activities
- **Where:** Decide upon the locations of activities
- **When:** Agree upon a timeline and key dates, and check in regularly

# Tips for Successful Partnerships

## **Get to know each other**

### **Each partner has a lot to learn and a lot to offer**

- Familiarize yourself with your partner organization through websites, newsletters, events, and other opportunities
- The more you understand about each other's purpose, activities, audiences, and culture, the easier your partnership will be
- Individuals come to a partnership with different strengths and experiences; every group needs dreamers, developers, and doers

# Tips for Successful Partnerships

## Communication is critical

- Strive to achieve a flexible, trusting atmosphere; be open and honest while still being tactful and supportive
- Things may not always go smoothly, so don't hesitate to pick up the phone and have an honest conversation to work things out
- Involve more than one contact person at each organization at different levels to ensure a deeper relationship that can survive changing circumstances and turnover



# Tips for Successful Partnerships

**Stay focused on your goals**

**Be prepared to change**

- Reflect on the original goals of your partnership and project, and consider how you want to improve, change course, or evolve the relationship
- As you work together, keep your long-term relationship in mind; by leveraging your combined resources and strengths, you can each do much more for your community

# Barriers to Success

- Lack of time and capacity to sustain the relationship
- Lack of clear purpose or common vision
- Lack of understanding roles or responsibilities
- Lack of commitment or buy-in by key individuals
- Major differences in philosophies and styles of working
- Unacceptable balance of power and control
- Staff turnover
- Failure to communicate
- Lack of feedback
- Failure to respond to feedback and evaluation
- Financial input and time commitments outweigh potential benefit

# Thank You



This material is based upon work supported by NASA under cooperative agreement award numbers NNX16AC67A and 80NSSC18M0061. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).



This presentation is based on work supported by the National Science Foundation under Grant No. 0940143. Any opinions, findings, and conclusions or recommendations expressed in this presentation are those of the authors and do not necessarily reflect the views of the Foundation.

**Alan Brown**  
Sci-Port Discovery Center  
Shreveport, LA

# Sci-Port Discovery Center

- 92,000 square feet
- Exhibit galleries covering topics including river geology, native animals, physical sciences, air and space, electricity and magnetism, health and the human body, etc.
  - Robust catalog of programs
  - Outreach Science Carnivals
    - IMAX Dome Theater
  - Space Dome Planetarium





## Caddo Correctional Center Work Re-entry Facility



**Through Bars without Barriers, Sci-Port staff train offenders in simple STEM activities and communication skills.**

- discuss the importance of science and math
- provide STEM activities as a tool to reconnect with children

- provide job training (Carpentry, Welding, Housekeeping)
- offer elective parenting/life skills classes
- minimum security, non-violent offenders



# bars:without barriers

DRILL GLE



**12 week program  
(6 training sessions,  
each followed by a  
family visit)**



## **What is Science?/The Scientific Method**

(Ooblek, Gloop, Pop Rockets, etc.)

## **Science Around the House**

(Ice Cream in a Bag, Air & Flight, Straw Flutes, etc.)

## **Science in the Yard**

(Plant Dissections, Mud Painting, Bird ID Bingo, Bess Bugs, etc.)

## **Science in the Supermarket**

(Plant Tasting, Playdough, Seed Art, etc.)

## **Science at Work**

(Take-apart activities, citizen science, Hour of Code, kitchen chemistry, etc.)

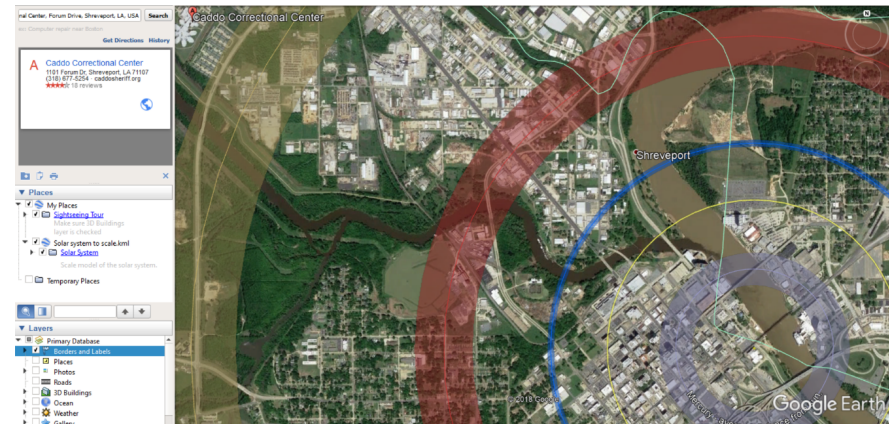
## **Science in the City**

(travelling exhibits, Nano, guests, etc.)



# Used NISE Net materials to recreate a trip to a Planetarium

1. Staff-led presentation introducing the Night Sky using Stellarium.
2. Staff introduced Solar System in your Pocket using “solar system to scale” Google Earth widget. Parents led activity.
3. Parent-led Planetary Bracelets activity station.
4. Treated several NISENet Earth-Space kits as stand-alone exhibits. (Filtered Light, Craters, Hide and Seek Moon, Exoplanet Transits, Stellar Wobble)







## Challenges

1. Due both to the audience and the fact that this program is at least as much about parenting as it is about science, it is helpful if educators are well-seasoned and, preferably, parents.
2. Buy-in from correctional center staffing is vital, as is a positive relationship between participating Offenders and deputies handling security and communication for family visits. Activities and lessons often challenge Offenders to go outside of their comfort zone to learn new information, and trust is vital.
3. Children have ranged in age from 15 days to 15 years, and it is not uncommon for offenders to juggle multiple children of differing ages and abilities.

Initial funding for Bars without Barriers was provided by the Beard Family Foundation.

Since 2016, this program has been funded through the Institute of Museum and Library Services (**IMLS MA-20-16-0017-16**).

The views, findings, conclusions or recommendations expressed in this program do not necessarily represent those of the Institute of Museum and Library Services.



**Derrick Pitts**  
The Franklin Institute  
Philadelphia, PA



# STARS FOR EVERY NEIGHBORHOOD

Per Aspera Ad Astra Civitatem - An Unlikely Alliance

Derrick H. Pitts, Sc.D.  
Chief Astronomer  
Fels Planetarium Director

The Franklin Institute  
Philadelphia

# The Franklin Institute Science Museum and Fels Planetarium Philadelphia Since 1824

- 11 Core Exhibits, Traveling Exhibits, Historic Collections
- IMAX, Planetarium, Musser Theater, Franklin Theater

- Demos, workshops, Speakers' Series, special events, outreach, professional development, NSO, SAH, PSF.



**TFI Size: 453K sf.; Annual Attendance: 985k +150K outreach**

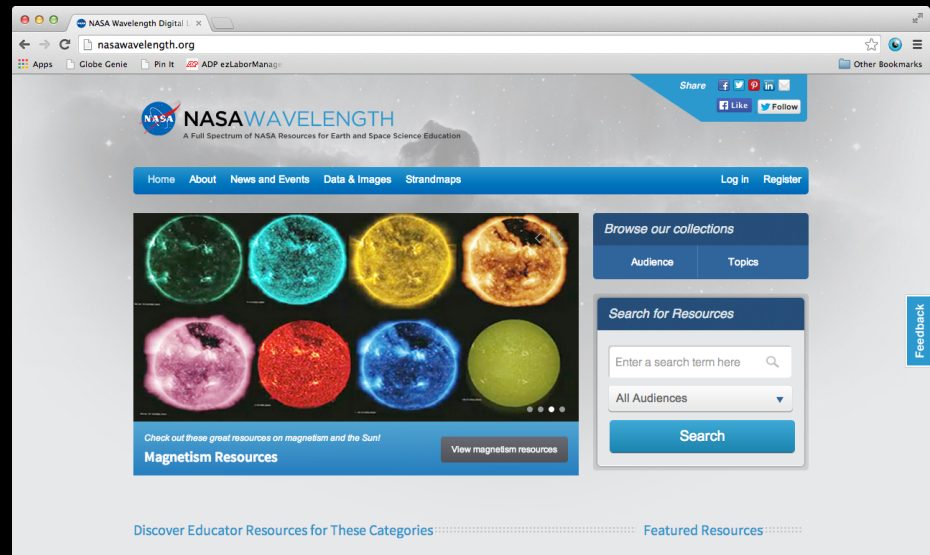


# SKIES FOR EVERYONE

The Program:

“City Skies: Linking Neighborhoods to NASA Through Urban Astronomy”

- City Skies’ Mission:
- To help develop the understanding that the night sky is available to everyone, everywhere without special equipment, even in an urban environment.
- Our project paired with NASA’s web resources makes YOU the expert in your neighborhood.



# SKIES FOR EVERYONE

## City Skies Target Audience

- Community-based organization program facilitators who engage families
- Middle-school teachers in partnership with neighborhood CBO's
- 'Underserved' in several different ways.



# SKIES FOR EVERYONE

## Unlikely Alliances:

- Franklin Institute and faith-based community.
- Inner-city CBOs and mostly suburban amateur astronomy community.
- City night lighting and novice sky observers.
- NASA, faith-based community and deeply underserved CBO's.
- Science as the bonding agent for a multi-community alliance.



# SKIES FOR EVERYONE



Hunting Park  
Community  
Science  
Network



# SKIES FOR EVERYONE

With some guidance,  
practice, and hand-  
holding...



# SKIES FOR EVERYONE



Success! A convert at last!

# SKIES FOR EVERYONE

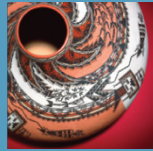
Successful?

Here's one example of the program's impact:

"I get a great sense of satisfaction from seeing the sense of wonder in the children and adults when they look through the telescopes", "Star parties in the community have impacted the children and their families in positive ways, [allowing] them to see the city sky for the first time".



**Samantha Sands**  
Denver Museum of Nature &  
Science Denver, CO



# Activities by Canoe

## Samantha Sands







DENVER MUSEUM OF NATURE & SCIENCE

## OUR MISSION

Be a catalyst! Ignite our community's passion for nature and science.

## OUR VISION

The Denver Museum of Nature & Science envisions an empowered community that loves, understands, and protects our natural world.

## OUR VALUES

- We love science.
- We are curious, creative, and playful.
- We cultivate relationships: with each other, diverse communities, the environment, and for our future.
- We think critically and act with empathy.



## OUR STRATEGIC OBJECTIVE

Increase the number and diversity of people who connect with the Museum around nature and science in ways that are meaningful to them.



**DENVER MUSEUM OF NATURE & SCIENCE**

DENVER MUSEUM OF NATURE & SCIENCE

# Science by Canoe



1-20-263-0553      

• Read 18 reviews of Centennial Canoe Outfitters - Day Tour

[Home](#) [Calendar](#) [Destinations](#) [Theme Trips](#) [About](#) [Buy Online](#) [Buy Photos](#) [Rentals](#) [Contact](#)

[Gallery](#)



**Saturday-Monday, July 13-15**  
\$436 adult, \$406 child (6-12 years)

**ADMISSION**  
Special Ticket Required  
**DESIGNED FOR**  
Everyone

Experience fascinating rock formations from the age of the dinosaurs, and paddle your way along the Colorado River with educator Samantha Sands as your time-travel

[READ FULL DESCRIPTION](#) ▾

 [LEARN MORE](#)



**Saturday-Monday, July 27-29**  
\$436 adult, \$406 child (6-12 years)

**ADMISSION**  
Special Ticket Required  
**DESIGNED FOR**  
Everyone

Embark on a memorable weekend with astronomer Naomi Pequette as you revel in both earthbound scenery and the breathtaking skies above. Without the interference

[READ FULL DESCRIPTION](#) ▾

 [LEARN MORE](#)

DENVER MUSEUM OF NATURE & SCIENCE

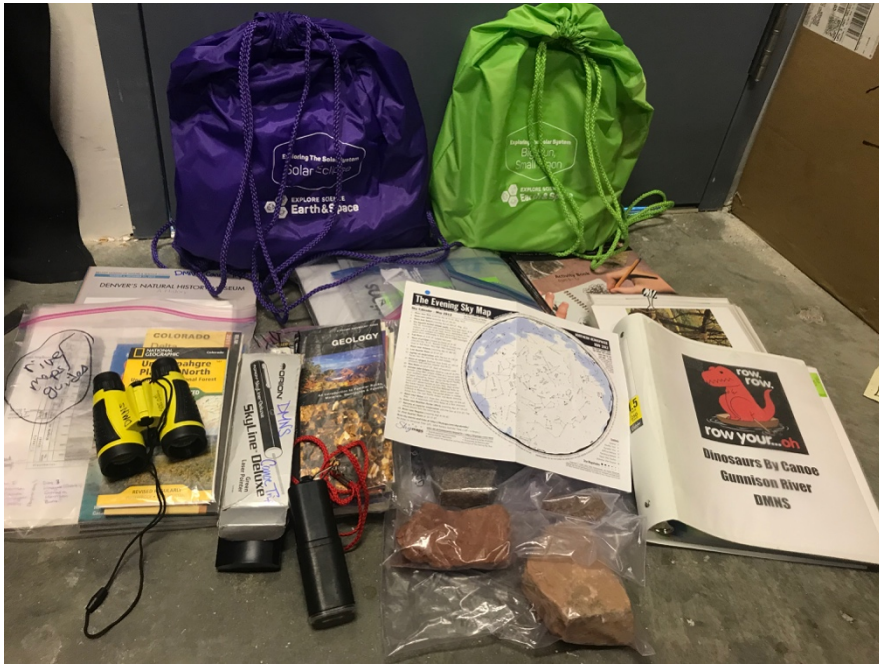


# GUNNISON RIVER ITINERARY 3-DAY ESCALANTE BRIDGE PUT-IN

## Gunnison River 3-Day Itinerary.

- **Day 1:** Meet your guide staff at the designated put-in at Escalante Canyon Bridge, located 35 miles south of Grand Junction, CO and start packing your dry bags and loading the gear in the canoes.
- After breakfast, each car owner will drive his vehicle to our private parking location at the Whitewater take-out. Centennial Canoe will shuttle all drivers back to the put-in meeting point. This generally takes approximately one hour. While the shuttle is being run, everyone else will be packing gear and preparing to paddle when the drivers return. Upon their arrival to the put-in our guides will demonstrate paddling instructions and safety issues before launching. Shortly after launching, you will begin paddling past the towering red sandstone walls of Escalante Canyon.
- Enjoy the thrill of paddling through Hail Mary's Rapid (or you can choose to skirt around the side). Paddle downriver until approximately noon and enjoy lunch on the river's edge, maybe catching a glimpse of an eagle or a desert sheep.
- After lunch, continue paddling and having water fights (optional) until roughly 3 p.m. You will make camp near the ancient red sandstone walls of Dominguez Canyon (depending on campsite availability).
- Late afternoon on the first day is devoted to setting up your tent and possibly taking a short hike, relaxing, playing, or floating in the river.
- Happy Hour begins at 5:30 p.m. where hors d'oeuvres and wine will be served.
- Dinner is served around 7 p.m. followed by campfire activities that may include games, singing, western tall tales, or guitar playing.
- **Day 2:** The middle day will often be a layover day devoted to hiking the Dominguez Canyon Wilderness Area (depending on campsite availability). Here you can discover ancient Indian petroglyphs and waterfalls, cool off and play in the water pools, and see wildlife. Many times lunches will be packed for the hike so you can explore this multi-million year old canyon to your heart's content. Other activities during the day may include playing in the river, floating through a stretch of rippling water, and/or relaxing in camp. However, your guides may choose to move downriver on the second day. Factors that influence this decision are weather, pace of the group, campsite availability, etc.
- **Day 3:** You will break down camp after a hearty breakfast and paddle out of the majestic Dominguez Canyon where the scenery begins to turn much greener with vegetation.
- After numerous water fights, river barging, joke telling, and just having good fun, you typically reach the Whitewater takeout between 2-4 p.m. after lunch on the last day of the trip. It takes about an hour to unpack gear, and then you're on your way home.





DENVER MUSEUM OF NATURE & SCIENCE





DENVER MUSEUM OF NATURE & SCIENCE





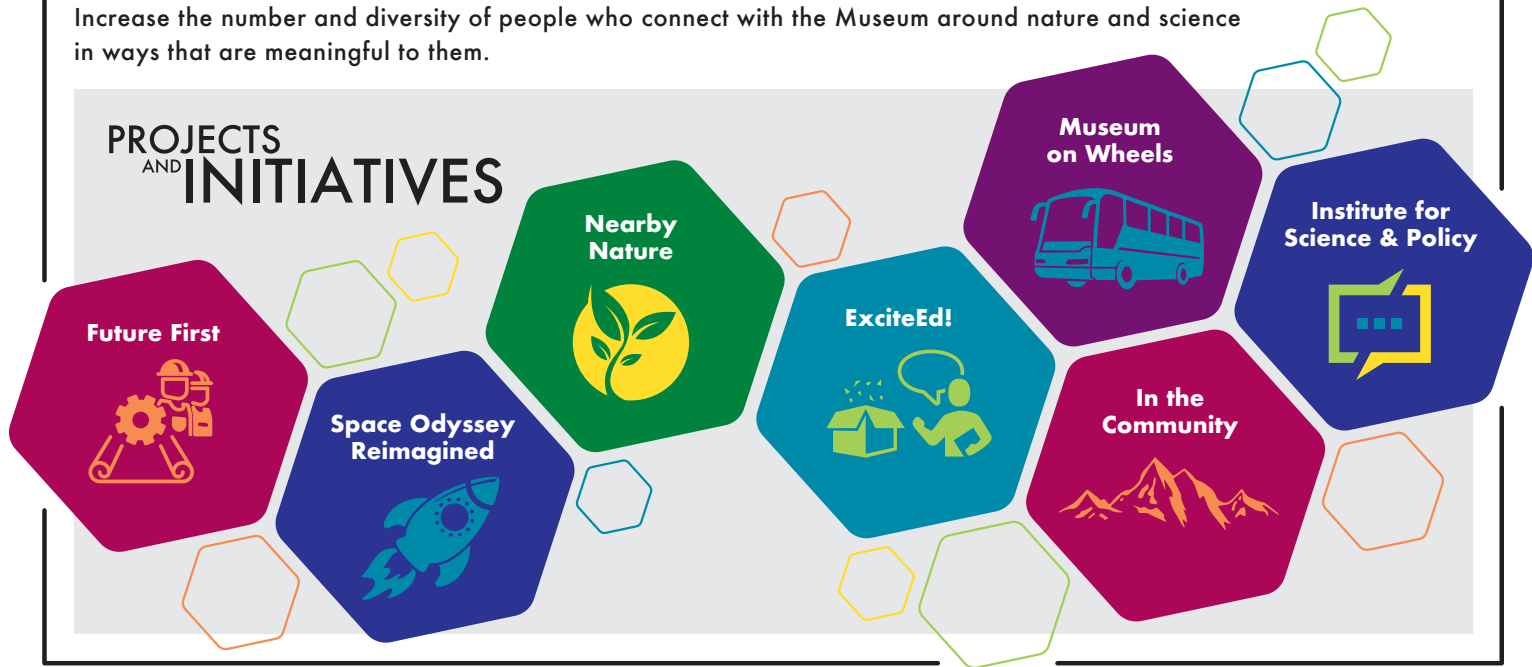
Photo Credit: Centennial Canoe

DENVER MUSEUM OF NATURE & SCIENCE

## OUR OBJECTIVE

Increase the number and diversity of people who connect with the Museum around nature and science in ways that are meaningful to them.

### PROJECTS AND INITIATIVES



**Charlie Gibson**  
Michigan Science Center  
Detroit, MI



# ASTRONOMY AT THE BEACH

Michigan Science Center (MiSci), Detroit, MI

Charles Gibson

Director Of Outreach



# About MiSci



- The mission of the Michigan Science Center is to inspire curious minds of all ages to discover, explore and appreciate science, technology, engineering and math in a creative, dynamic learning environment.
- 190,000+ Annual Attendance
- 75,000+ Annual Outreach Impact



# Traveling Science and ECHO

- 83 County Initiative
- Workshops, Presentations, Science Festivals, virtual visits and webinars
- Schools, Libraries, Community Events
- STARLAB



# Earth & Space Toolkits

- Space / Astronomy Days
- Yuri's Night – World Space Party (21+)
- Red Planet Pioneers (after school)
- Astronomy Events  
(Astronomy at the Beach - Milford, MI)



# ASTRONOMY AT THE BEACH

- Annual 2-night Star Gazing Event
- AATB started in 1996 to view the comets Hyakutake and Hale-Bopp
- Great Lakes Association of Astronomy Clubs (GLAAC)
  - 13 members – clubs, universities, science centers
- Michigan Department of Natural Resources (DNR)
- Located in Milford, MI







# ASTRONOMY AT THE BEACH

- Event runs from 6pm-midnight
- Michigan Science Center is the Presenting Sponsor
  - We bring all the A/V equipment
  - Activities
  - STARLAB
  - Lots of staff/volunteers





# ASTRONOMY AT THE BEACH

- Attendance has grown from 200 (1995) to 6,000 (2018)
- Marketing done mostly through GLAAC
- MiSci shares on Facebook, general member/public e-blasts





# ASTRONOMY AT THE BEACH

- Challenges:
  - Weather – wind, rain, you name it
  - Diverse audience
  - Lots of opinions 😊
  - Location
  - Parking





# WHAT'S NEXT?

## Scopes in the City

- Michigan Space Grant Consortium

## Astronomy on the Isle

- City star gazing event on Belle Isle

## Apollo-themed outreach programs

- Libraries; funded by Community Telecommunications Network



Charles Gibson

Director of Outreach

[Charles.Gibson@mi-sci.org](mailto:Charles.Gibson@mi-sci.org)

(313) 494-5304

Michigan Science Center

5020 John R Street

Detroit, MI 48202

mi-sci.org

@mi\_sci (Twitter and Instagram)





# Questions and Discussion

Are there robots  
the size of a freckle or hair?



.1mm



# Thank You

