

NISE Net Online Workshop

Co-creation & You - Inspiring Partner Stories from Participants of the Co-Created Public Engagement with Science Project

December 3, 2024



Today's Presenters:

- **Claire Quimby**, Rockman Et Al Cooperative, Bloomington, IN
- **Megan Roselli**, Da Vinci Science Center, Allentown, PA
- **Imani Vincent**, Museum of Life and Science, Durham, NC
- **Jesse Zito**, Orlando Science Center, Orlando, FL
- **Elizabeth Kunz Kollmann**, Museum of Science, Boston
- **Katie Baur**, Museum of Science, Boston
- **David Sittenfeld**, Museum of Science, Boston



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 [Chat Box](#) at any time throughout the webinar. During the Q&A you may also use the raise hand feature (see "Participants" on the toolbar) and we will call on you in the order questions are received.

Today's workshop will be recorded; those registered will receive an email when available here: nisenet.org/online-workshop-recordings

Co-Created Public Engagement with Science (CC-PES) Project Info on nisenet.org



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Claire Quimby
Rockman Et Al Cooperative
Bloomington, IN

Co-creation & You

Inspiring Partner Stories
from Participants of the
Co-Created Public
Engagement with
Science Project

Claire Quimby

Senior Research Associate
Rockman Et Al Cooperative

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**Co-
Created**

**Public
Engagement w/
Science**

Museum + other partners (civic and community orgs)

Creating program/project together

Addressing issues selected by the community

Multi-directional dialog between scientists, community members, & other interest holders

Valuing knowledge and experience on all sides

Arriving at better decisions about how to tackle complex scientific challenges that intersect with social issues/human concerns

Co-Created Public Engagement with Science

Project Roadmap



Form
Partnership

Welcome
Event

Topic Selection

Forum or
Event

Action

CC-PES Participating Sites



Project Phase 3

Bisbee Science Lab, Bisbee Unified School District

McWane Science Center, UAB Hospital, University of Alabama Minority Health Equity Research Center & Sociology Dept.

Orlando Science Center, Urban Smart Farms, IDEAS for US, Worm Nerd, local bakeries, local commissioners

Da Vinci Science Center, Promise Neighborhoods of Lehigh Valley, Allentown Police Dept.

Sciencenter, Future Science Leaders summer camp, Cornell research scientists, NY SEA Grant

The Works: Ohio Center for History, Art, & Technology; Granville Schools Sustainability Project, Canal Market District Farmers' Market

Great Lakes Science Center, Midtown Cleveland, Inc, Manufacturing Advocacy and Growth Network, City Council Community Board Member

Museum of Science and History (Memphis), University of TN at Martin, McNairy County School District, McNairy County Tourism Board

Explora, East Mountain High School, STEM professionals

Project Phases 1 and 2

Museum of Science Boston, Urban College of Boston, Mayor's Office of New Urban Mechanics

Metro, Momentum Alliance, OMSI

Families Moving Forward, Museum of Life and Science, Neighborhood Improvement Services

Megan Roselli
Da Vinci Science Center
Allentown, PA

Youth Against Gun Violence



DA VINCI
SCIENCE
CENTER®



PROMISE NEIGHBORHOODS
OF THE LEHIGH VALLEY

Co-created Public Engagement with Science Event
Megan Roselli, Zaleeae Sierra, and Cristyna Batts

Partnership Forming & Topic Selection

Collaboration between
DSC + Promise
Neighborhoods of the
Lehigh Valley

Preliminary surveys-
all but one youth
agreed that gun
violence was an issue
in their neighborhoods

Emerging scientific
research shows
violence is a
contagious disease

Goals of the Project

Create a safe space for Allentown youth to talk about violence

Address the question: "How can Allentown youth feel safer in their schools and communities?"

Position youth as the experts-- encourage advocacy and aim for action

Adults realize that youth can and want to contribute to conversations about gun violence

Create resources as needed (determined by youth)



Forums

- Collaboratively hosted two forums
- 24 students ranging in age from 10-18
- Students lived or went to school in Allentown

Forum Results

Youth shared stories about violence and gun violence in their lives-- "It feels like it can happen anytime, anywhere"

All youth who participated responded that they would like to talk about gun violence more often

Almost all youth felt like they had a trusted adult they could go to if they knew of a gun in their schools or communities

Most youth did NOT think that the adult would know what to do with this information

Action Step

- Continue to build relationships with the students in the forums, so that they can help us combine and share data with stakeholders
 - Allentown Police Department
 - State and local lawmakers, school board members, etc.
 - Other Community Sites
- Collaboratively applied for a grant to provide students access to and training in our Media Studio to create media around "How can we make our Allentown a better place"
- Internally re-visit Da Vinci Science Centers policies, train our staff, and communicate with the public

Imani Vincent
Museum of Life and Science
Durham, NC



Imani Vincent, Max Cawley,
Tasha Melvin & Stepheny Hine



Goals

- design meaningful programming with and for FMF families
- treat our work together as an ongoing collaboration

work in
progress



2019

● **CC-PES Project Kick Off – Spring 2019** - All team meeting in Boston

2020

● **Early relationship-building meetings** - Team members from FMF and MLS met three or four times during the first year of the project to learn about each other's organizations, talk about project goals, and talk about what their roles might be.

● **Welcome event – Dec 2020** - The team did a hands-on, online activity with families centered on the question "What is your dream for Durham?" Families used drawings, LEGOS, and clay to create their responses.

2021

● **Topic Selection Workshop – Apr 2021** - The team held a virtual workshop to consider four different topics, with guest speakers presenting about each.

2022

● **Listening Sessions – 2021-22** - The team took the topic of greatest interest from their topic selection workshop – affordable housing, and held a series of listening sessions with FMF families to explore what aspects of this issue felt most important to address in a forum.

● **Forums – Oct 2022** - The Durham team held three forums during October 2022, each at a different location in order to reach a variety of audiences.

2023

● **Action Activities – Fall 2022 through present** - The team has completed a number of different action activities which are ongoing. (See Action, p. 21)

Timeline



Connection with FMF & MLS

more than a box



Forums

- 104 Durham Residents
- 3 forums (Museum, Public Library and Community Center)
- Gift cards



Results!

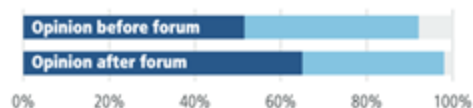


ANALYSIS

The forums strengthened participants' views about evidence-based decision-making.

Opinion: A variety of evidence should be considered when making decisions.

■ Strongly agree ■ Agree ■ Disagree (incl. strongly)

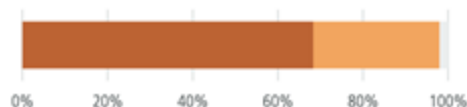


EMPATHY

99% of forum participants learned about views different from their own.

Opinion: I learned about views different than my own.

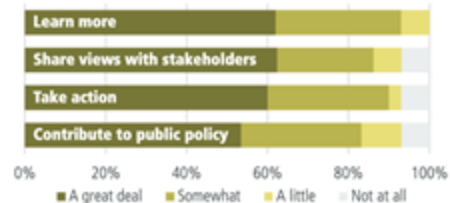
■ Strongly agree ■ Agree ■ Disagree (incl. strongly)



AGENCY

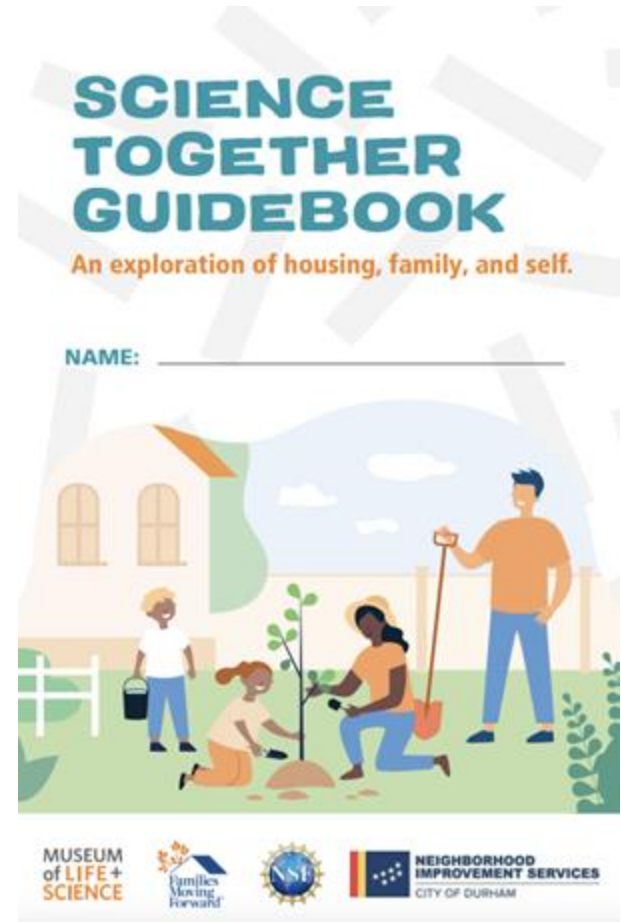
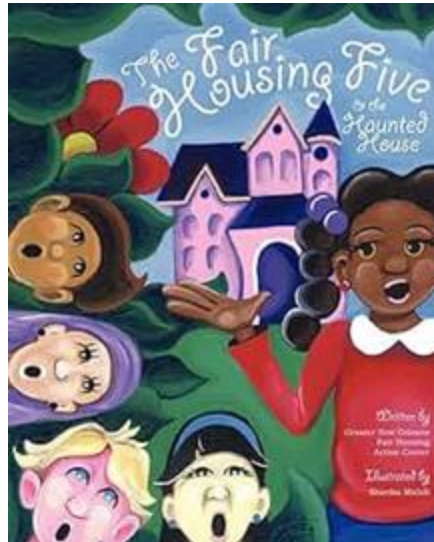
90% of forum participants increased their confidence to take action.

This forum increased confidence in my ability to...



Action

- Science Together Guidebook
- The Fair Housing Five and the Haunted House
- Continued Programming & Support



Jesse Zito
Orlando Science Center
Orlando, FL

Food Systems Community Forum



SM

**ORLANDO
SCIENCE
CENTER**



IDEAS
— For Us —

Food Systems - Orlando Science Center

Program Goals:

- Build meaningful connections with community groups that can help expand impactful guest interaction and programming
- Develop guidelines for community forums and listening sessions
- Develop organizational commitments to offering community forums as a way to connect with our community and expand our impactful offerings to the community



Food Systems - Orlando Science Center

Program Highlights

- Post-forum partner gathering and collaboration
- Increase in ideas, communication and creativity from partners
- Worm Nerd/Ideas For Us collaboration
- Better museum displays, improvement in guest interaction
- Partner connections
- Spark STEM Fest partner zones

Lessons Learned

- Organizational buy-in is key
- Outside factors during events and how to handle unforeseen changes
- Front end work (building trust, committing to being a true partner)
- Civic leaders
- Follow up with partners about progress

Food Systems - Orlando Science Center

Next Steps Example

- Misinformation Community Forums
 - January 4th, 12th and 15th
 - Working closely with local educational organizations, civic leaders, community partners, industry professionals and OSC volunteers to discuss and gather information about misinformation and disinformation in our community.



Discussion

joined by

Elizabeth Kunz Kollmann, Museum of Science, Boston

Katie Baur, Museum of Science, Boston

David Sittenfeld, Museum of Science, Boston

Discussion Questions

- In this project, we talked a lot about what co-creation means. Can you describe a moment or example of when your work felt really co-created?
- Were there any moments when things didn't feel co-created, or when you had doubts?
- We know that a huge part of co-creation is the relationships between the organizations and individuals involved. Can you talk about what it was like to initiate those relationships?
- Are there any pointers you can provide to others on how best to approach communities or groups about this kind of project?
- What are some of the key challenges you think groups might encounter in a co-creation project?
- Did you find any successful strategies for dealing with these challenges?
- How should we be assessing the success of co-creation projects? How would you propose measuring the impact or outcomes of your work?

Discussion Questions cont'd

- What might co-creation look like in an online environment, for example, amongst online communities of practice?
- Have these projects had any impact on your organization or on the community work that has followed?
- Has the co-creation process made it any easier to continue or sustain this kind of work?

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Resources & Opportunities



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



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nisenet.org/newsletter



Past Recordings of Online Workshops
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Next Online Workshop...

STEM Identity & Career Interest for Students Traditionally Underrepresented in STEM

Tuesday, January 14, 2025
2pm-3pm Eastern / 11am-12pm Pacific



Register at nisenet.org/events/online-workshop-stem-identity-2025



Thank You



Q&A

**Use the raise hand
feature or type your
question into the chat**

