Welcome to the NGCP National Webinar

The STEM Effect: A collaborative action agenda for understanding the long-term impacts of STEM programs on girls
Vision

The National Girls Collaborative Project brings together organizations committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).
NGCP Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.

2. **Strengthen the capacity** of programs by sharing exemplary practice research and program models.

3. **Use the leverage of a network** to achieve gender equity in STEM.
NGCP Activities

Virtually:
- Distribution and Content Projects
- *The Connectory – Collaboration Tool*
- FabFems – *Role Model Tool*
- E-Newsletter and Social Media
- Webinars – *Exemplary Practices*

Local Collaboratives:
- Professional Development: *Conferences and Forums*
- Incentives to Collaborate: *Mini-Grants*
- Newsletters and Local Resources
National Network of Collaborative Teams
The STEM Effect: A collaborative action agenda for understanding the long-term impacts of STEM programs on girls

This material is based upon work supported by the National Science Foundation under Grant No. #1811155 (Division of Research on Learning).
Introduction to the STEM Effect Project
Goals

Participants

Primary activities
The Problem
Informal STEM programs for middle and high school-aged girls know very little about their mid- and long-term impact on program participants.

Goals
Develop an action agenda to better understand the mid- and long-term impacts of informal STEM programs for girls, and methods and approaches for measuring them. Lay the foundation for future research.
Focus on cultural organizations

• museums
• science centers
• zoos
• botanical gardens
• aquaria
Participants
• Collaborative Planning Group (CPG) - 5 NGCP state representatives
• Representatives and practitioners from cultural organizations
• Other stakeholders - researchers, educators, girls and young women, parents, and funders
Primary activities
Engagement of stakeholders happened through in-person and online meetings, and twitter chats

• Advisory Board meetings
• Collaborative Planning Group meetings
• Focus groups
• Twitter chats
• Review of existing research literature
Social media campaign

Project Website
The STEM EFFECT
https://sites.google.com/view/thestemeffect/home

Project Facebook Page
https://www.facebook.com/TheSTEMEffect

Project Twitter Page
https://twitter.com/STEMEffectGirls
Elements of Our Action Agenda

- Logic model(s)
- Critical junctures model
- Research questions
- Action Steps
Key Areas for Future Research

What elements of girl-serving programs offered by cultural organizations are effective in promoting the long-term participation and educational attainment of girls?

What are effective strategies for supporting girls from non-dominant racial/ethnic groups in persisting on STEM career trajectories?

What are effective strategies for collaboration between STEM-rich organizations that support girls’ persistence in STEM over the long-term?
Proposed Priority Areas for Future Research

**PRIORITY AREA 1**
Build knowledge about shared criteria across cultural organizations for common self-assessments and evaluation frameworks for their STEM programs, which will bolster the organizational capacity for undertaking long-term impact research and the compilation of data across organizations.

**PRIORITY AREA 2**
Build knowledge about what kinds of supportive relationships help girls continue on STEM trajectories.
Proposed Priority Areas for Future Research

PRIORITY AREA 3
Build knowledge about how to design programs that support girls from non-dominant racial/ethnic groups to stay involved in STEM programs.

PRIORITY AREA 4
Build knowledge about the unique program elements that cultural organizations can offer and that inspire girls to persist on STEM career trajectories.

PRIORITY AREA 5
Build knowledge about establishing relationships across cultural and educational institutions to help girls persist in STEM, especially through critical junctures research, which is key to supporting girls on long-term trajectories.
Let’s Discuss:
Join colleagues and respond to one or all of the below

Your feedback is needed

Q1: In what ways are the overarching questions relevant to you?

Q2: How do the examples from the priority areas resonate for you? Let's share other ideas or examples for inclusion.

Q3: What partners might you need to do this work?
Next Steps

- Help with dissemination, share with your colleagues and stakeholders
- Provide us with feedback
- Contact us at stemeffect4girls@gmail.com

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Upcoming NGCP Webinar
The National Math Festival: Engaging Girls in Math Fun!

Wednesday, April 8, 2020
11:00am Pacific | 12:00 Mountain | 1:00 Central | 2:00 Eastern

Register on the NGCP Website