



March Theme of the Month Webinar Panel

Developing Youth STEM Change Makers - Making a Difference!

March 8th at 3 PM EST



Jim Callahan (moderator), Kelly Greene, Kevin Cuff, & Mike Barnett

Webinar Chat

Kelly Greene: CSO video on the showcase to watch after the presentation:

<https://multiplex.videohall.com/presentations/2529>

R Neff: Yes - how can students take meaningful action to address the local impacts of climate change?

Kathryn Hobbs: You can visit Kevin's EBAYS website here:

<https://ebays.lawrencehallofscience.org/about>

K Fankhauser: Reacted to You can visit Kevin'... with ❤️

K Fankhauser: I'm not from New England, but lived in for a while and absolutely loved central Mass :)

Jim Callahan: @Randi You've absolutely come to the right place! One of the specific questions sure to be discussed. Looking forward to your input as well!

R Neff: Reacted to @Randi You've absol... with 😊

Joni Falk: Sahiba, so enjoyed hearing from you!!!!

Kelly Greene: Reacted to Sahiba, so enjoyed h... with ❤️

Sahiba: Reacted to Sahiba, so enjoyed h... with ❤️

N Margulies: Is there a chapter in Virginia?

N Margulies: Northern Virginia.

Joni Falk: Also join the online discussion afterward!

A Das: Can you share about Iowa chapter and whom we should connect with

Kelly Greene: Iowa is still developing, but we would love to get connected.

Kelly Greene: Virginia is also developing! We are looking for collaborating organizations or schools.

Kelly Greene: Kelly can be reached at KGreene@SciTechInstitute.org! Let's get your students connected.

Joni Falk: Antonia, thank you for that!!!!!!!

A Das: So powerful Sahiba and Antonia

E Petersen: Kevin - What do they use to test for lead (Pb) in Oakland

M Roselli: For Kevin and Mike- How did you select the topics of your research? Did the students help you define community problems or identify areas of study?

A Luehmann: Youth (and adults), how do you prepare to talk about issues that some might find political or taboo like environmental racism?

Kelly Greene: Replying to Youth (and adults), ... CSOs have formed an Equity for Everyone Focus Committee to address issues. They have also designed training to advocate for certain topics.

E Weiss: Follow up to what Mike shared, what are the best ways you and others have found to stay in touch with alumni to track program impacts over time?

Kelly Greene: Replying to Follow up to what Mi... We have worked to keep Alumni leading the networking. We have invited the prior students to present, participate and share their impact even after the program.

Mike Barnett: @Emily We have a great evaluation and research team and the youth help us find other youth

L Bondurant: Mike and Kelly, do you have websites that you could share?

Kelly Greene: ChiefScienceOfficers.org & SciTechInstitute.org

B Somide: Hello Everyone! This is Bukola, founder/CEO of Innovant Technologies and creator of the award-winning Somi, the Computer Scientist doll. We create fun CS educational products that inspire, engage, and boost the confidence of children/students in underrepresented communities.

Mike Barnett: Here is ours. It has been updated since the youth have started running workshops for their families 😊

Mike Barnett: <https://sites.google.com/bc.edu/leafs-project/home?authuser=0>

Sahiba: The CSO website is www.chiefscienceofficers.org 😊

Sahiba: <https://chiefscienceofficers.org>

Luca: Here's the website for Mobile Climate Science Labs:
<http://climatechangeeducation.org/index.html>

E Weiss: thanks, all!

Mike Barnett: We have found that the youth are more than willing to tackle the uncomfortable problems

K Fankhauser: Replying to We have found that t... And they have the energy, optimism, AND fresh perspectives to tackle those problems :)

N Margulies: Replying to We have found that t... I do appreciate that the youth is embracing STEM tools.

N Margulies: Replying to We have found that t... Math - for example - there is nothing wrong with it - the issue is how is being taught

E Petersen: Thank goodness for the Youth!! :-)

S De Los Santos: Reacted to Thank goodness for t... with 🙌

J Warburton: For the panelists, do you any of your projects work with different knowledge systems and if so, how do you navigate that with the very western idea of STEM?

K Fankhauser: Reacted to For the panelists, d... with ❤️

N Margulies: Replying to For the panelists, d... Would you please elaborate what do you mean by western idea of STEM?

J Warburton: Replying to For the panelists, d... I think Kevin spoke to this --- it's a term that is very defined and when working with other cultures and that have different knowledge systems, it can be challenging to recruit youth to programs that are using these terms. Not sure I can explain this too well in text 😊

N Margulies: Replying to For the panelists, d... You mean bringing other cultural perspectives to accomplish a STEM project based on STEM tools?

Kevin Cuff: Replying to For the panelists, d... Not only is it difficult to recruit youth, but also difficult to secure buy-in from others (adults)

Luca: I've found that when we start talking about the science involve, the people start to listen much more intently 😊

S De Los Santos: Reacted to I've found that when... with 🙌

Luca: The National Museum of Natural History in DC, by the way

L Weber: 🌟 Sahiba and Antonia 🌟

L Gibson: Reacted to 🌟 Sahiba and An... with 🙌

K Fankhauser: Reacted to 🌟 Sahiba and Antoni... with 🙌

L Gibson: We're here at NOAA to listen and partner even if some other federal agencies aren't :)

K Fankhauser: Reacted to We're here at NOAA t... with 🙌

I ALEZONES: Hi everyone, my name is Isaias, executive director of Saiasi Foundation located in Gilbertown, Alabama. We promote STEM plus Art, STEAM to middle school students. Our motto is STEAM by Having Fun! Thanks for this platform where we all share and continue to learn how to do better.

Jim Callahan: @Lauren Yea NOAA! You've made such a great positive difference in our work for years! Let's PLEASE keep working together with you. Ever expanding.

Jim Callahan: @Luaren We look forward to the Mid Atlantic Climate Change Education convening where our students are presenters. NOAA hosted! ... The resources of CLEAN are the foundation of our science education in our K-12 schools....

L Gibson: Reacted to @Luaren We look f... with ❤️

L Gibson: Excited to hear it @Jim! I need to step away for a quick meeting, but I'll be back for the breakouts. Love this convo, and thanks in particular to Sahiba and Antonia for serving as panelists (especially during the school day)!

Jim Callahan: @Isaias... and all with related programs. Please stick around for the breakout and after webinar discussions. Let's learn more about your programs! Perhaps we can work together.

Joni Falk: We will send a link to the recording to all of you tomorrow. Please feel free to share with colleagues too.

S Cundiff: Hi everyone! I am with SciTech Institute and work with Kelly! I am currently the Arizona CSO regional lead but was a CSO advisor for a couple years before working with SciTech full time! As an advisor, it was so cool to see my students become leaders on campus and do STEM activities for the pre k - 2nd graders! Now being the Arizona CSO Regional Lead, I have been able to connect with ALL the CSOs across Arizona and it has been awesome! If anyone has any questions about the program and are interested in getting the program started in your area, please let me know! I'd be happy to answer any questions you have!

Mike Barnett: <https://journals.bilpubgroup.com/index.php/jpr/article/view/5236>

Luca: If anyone has any questions about Mobile Climate Science Labs, I'll be answering any questions in the chat for Antonia and Jim.

S Haines: Hi all, joining from the Children's Media department at GBH in Boston! I work on a number of PBS Kids programs, such as Arthur, Molly of Denali, and Design Squad, as well as research based projects around creating STEM media for young children. We're always looking for new ideas, partners, and funding! If you want to connect, don't hesitate to reach out.

N Margulies: One of the main actions that could be taken in Virginia - for example - will be to integrate computer science in K-8 grades.

N Margulies: Computer science is not mandatory for graduation in Virginia. CS will provide our students with a powerful tool.

Sahiba: Would love to hear in breakouts or in the chat about what is meant by research-based projects. I've always heard the word "stem research", but am curious as to what it consists of, I see many people here have mentioned it!

N Margulies: Another important step will be to address math education loss.

Luca: That is very true! Sometimes our meetings with directors from the museums that we are trying to reduce the carbon footprints of don't take us seriously at first.

Jim Callahan: Following on Luca...

Jim Callahan: But NOW, we meet with MULTIPLE directors and they ask us to survey another exhibit....

Jim Callahan: Taking the students advice!

N Margulies: Thank you for the event.

Jim Callahan: Great subjects to take into the breakout sessions!

Kelly Greene: @Norma, this year we spent time on a CS Grant! We should connect.

J Warburton: Thank you!

I ALEZONES: We are at job fair for Choctaw County High schoolers here in Alabama and it is difficult to talk, but by typing I can introduce you what we do. Coming from the video and photography production side in the entertainment business and mixing art, photography and aeronautics, I decided to make our 7 seven project a reality starting here in Alabama, where with the cooperation of subject matter experts and visual artists throughout the country the project will be complete, fun and useful to promote to middle school students a path to pursue careers in STEAM. We are in the process of renovating a 1800's two story building where all the projects will taking place and then shared with middle schools across the country. We hope you like it!

Kim Descoteaux: Thank you for joining us today! This webinar was hosted by The STEM for All Multiplex Funded by NSF #1922641. This webinar was recorded and will be available tomorrow at <https://multiplex.videohall.com>

Mike Barnett: <https://journals.sagepub.com/doi/10.1177/0042085910377297>

Mike Barnett: If folks are curious, been working on that trust thing for long time, it is very hard

Kelly Greene: Thank you to everyone for participating today! It was an honor to share and we are so proud of CSO Sahiba. My email is KGreene@SciTechInstitute.org if you would like to get connected. Please visit our video on the showcase:
<https://multiplex.videohall.com/presentations/2529>

K Jacqueline: Thank you!

L Gibson: Feel free to reach out! lauren.gibson@noaa.gov

Mike Barnett: thanks everyone!