



Theme of the Month Webinar Panel

Taking Action! Student generation of solutions to local environmental problems



February 7th at 3:00PM EST



Nancy Butler Songer,
Moderator



Dr. Kirby
Whittington



Beatriz
Cañas



Rebecca Clark
Uchenna

Resources Mentioned During Webinar and Webinar Chat

Resources Mentioned During Webinar:

From Panelists:

- Life Right Here & Everywhere Project website: <https://lrhe.utah.edu/>
- Tuva, Interactive Tools for Teaching, Learning, and Assessment: <https://tuvalabs.com/>
- DataClassroom provides teachers the opportunity to integrate next generation data-skills seamlessly with the learning experiences they are already creating <https://about.dataclassroom.com/>
- Chicago Botanic Garden, How to build out culturally relevant Environmental Education programs with community partnerships https://www.chicagobotanic.org/sciencefirst/environmental_education_programs

From Participants:

- Resources around Place Based Education Principles have been developed by the Great Lakes Stewardship Initiative in Michigan - <https://greatlakesstewardship.org/guiding-principles-of-place-based-stewardship-education>
- Here's an example of a resource that explains the process that sounds similar to some of the work you all have been doing, using stormwater runoff as the phenomenon if anyone is interested <https://greatlakesstewardship.org/during-the-pandemic>

- The Animal Diversity Web - a beautiful, informative set of interactive pocket guides for Great Lakes parks, zoos, and museums. <https://apps.apple.com/us/app/adw-pocket-guide/id916179421>
- CODAP, free online data platform designed to support learning. Tables, maps, and graphs are linked, which is a really nice feature. <https://codap.concord.org/>

Webinar Chat:

Lisa B: Lisa from Birmingham AL - middle school math/science teacher

Meredith V: HI! Meredith Vaughn. Faculty at San Diego State University

Joni Falk: Thanks for introducing yourselves!!!

Joni Falk: Welcome!

Stephanie p: Hello all, Stephanie from NY high school science teacher

Joni Falk: We will be starting at 3 02 to let everyone log in. Keep the intros coming!

Carrie F: Hello! Carrie Ferraro from Rutgers University in NJ

Nancy W: Hello! My name is Nancy! I am a TOSA in Hayward Unified and science educator for Alameda COE

Roberta H: Hi Carrie! Roberta Hunter from Michigan State

Guillermo R: Hello everyone, Guillermo Ibarrola Recalde, College of Science and Technology at Temple University

Nancy Songer: HI everyone! Its great to see friends and colleagues.

Tabatha R: Hi everyone! I'm a 2nd year doc student in math education at the university of Tennessee.

Mihaela P: Hello!

Wanda B: Good afternoon from Michigan

Joni Falk: Excited to see new and familiar faces. We will start in just a minute

Lydia H: Greeting from Colorado!

Michelle H: Greetings from Nebraska!

Brian F: Hi Brian from Cal State Northridge (sunny Los Angeles). Hi Nancy!

Elphas O: Hello everyone, I am Elphas from Nairobi, Kenya.

Nancy Songer: HI Brian! Hi Guillermo! Hi many other wonderful friends!

Leigh M: Hello! Leigh Metcalfe, from Nevada. Governors Office of Science, Innovation and Technology.

Kim Descoteaux: <https://multiplex.videohall.com>

Alaina Z: Hello from Herring Gut Learning Center in Port Clyde, ME! I'm Alaina, an Aquatic Science Educator 😊

Haley S: Haley Smith, joining from currently quite cold and rainy Raleigh, NC.

Eileen B: Hello all, this is my first time participating in one of these and I'm very excited to be here. Eileen Boekestein, Environmental Education Coordinator with the Michigan Department of Environment, Great Lakes, and Energy

Kim H: Hi everyone, I'm Kim Hunter, Environmental Leadership Teacher and Environmental TOSA for Santa Clara Unified School District in Santa Clara CA

Dannielle D: Dr. Dannielle Joy Davis from Saint Louis U. here!

Kim Descoteaux: This webinar is hosted by the STEM for All Multiplex <https://multiplex.videohall.com> Funded by NSF #1922641 Opinions expressed on this site are those of the contributors and not necessarily those of the National Science Foundation.

Joyce C: Assistant to Dr. John Coleman, Langston University

Joni Falk: Feel free to type questions for panelists here. And they will try to reply either on the chat, in the breakout session after, or in the asynchronous two-week discussion that will take place on the site.

Tiffany W: Awe, this is my tiny hometown (Gautier)! Wonderful to see students there engaged in their community. Thanks Rebecca!

Rebecca Clark Uchenna: That is amazing Tiffany! I am so inspired by these students; they're doing great work!

Nancy W: Kirby, if an educator is interested in these lessons, is there a place for us to find them online? This sounds amazing!!

Kirby Whittington: Hi Nancy, yes. We have a project website and feel free to reach out to the team to get the lesson.

Wanda B: Do the presenters use a specific design framework to help teachers improve in place based unit design?

Alaina Z: I am interested in Beatriz's data collection tool. Thank you!
azyhowski@herringgut.org

Erin G: I would love to learn more about your evaluation questions, Beatriz. From the other speakers as well, if they have them to share.

LOUISE B: I am interested in the data collection tool lbalazs@mcaabhm.org

Larisa S: @Kirby We are also interested in these resources (lessons and data collection) If you can please share a link in the chat? Thanks!

Eileen B: Some really great basic resources around Place Based Education Principles have been developed by the Great Lakes Stewardship Initiative in Michigan - <https://greatlakesstewardship.org/guiding-principles-of-place-based-stewardship-education>

Kate P: Have any of you considered doing some geospatial data collection? Allowing your students to map what they observe and look for patterns, perform analysis, etc.?

James C: Fantastic action projects! Question to panelists Interested in how fellow action projects are making advances where students of color and young women are not daunted by stereotypes that STEM and action is not for them. Staying with it, and being strong when some try to dismiss them as young people's STEM actions are not to be taken seriously. Programs supporting one another!

Eileen B: Here's an example of a resource that explains the process that sounds similar to some of the work you all have been doing, using stormwater runoff as the phenomenon if anyone is interested <https://greatlakesstewardship.org/during-the-pandemic>

Alaina Z: Thank you Eileen!

Emilly O: Thanks Eileen!

Kim Descoteaux: Here is a link to Kirby's project website - <https://lrhe.utah.edu/> you can find resources and contact info there

Martha A: @beatriz how did you connect students to community partners?

Betsy U: Working with DEI language ... KIRBY, how do you approach the terms that can frequent Invasive species with students? Especially how political they can get with the "invasions" of human populations?

Traci H: I am wondering about the supports and tools for wrangling and making sense of data. How are teachers supported in data analysis? How is this sustained beyond the scope of a specific project?

Kristian B: We have a number of public service media projects that have "community toolkits" that give advice for screenings and town meetings... but they were all for live screenings/town meetings and I was wondering if anyone here might have already developed and written up advice for holding virtual town meetings during the pandemic. We have a possible climate risk assessment/climate action plan student project idea we would like to post online and this would address the research dissemination/community action piece. Thanks

April L: Tuva?

John V: Tuva Labs

Kate P: Tuva?

Emilly O: What is the name of the graphing program again?

Caitlin M: What was the name of that again?

John V: tuvalabs.com

Kim H: <https://tuvalabs.com/>

Guillermo R: Betsy, non-native or not indigenous, could be used appropriately for invasive species

April L: <https://tuvalabs.com>

Traci H: In our work we use CODAP, free online data platform designed to support learning. Tables, maps, and graphs are linked, which is a really nice feature.

Dannielle D: What was the second thing for data after Tuva?

Joni Falk: Is there a professional development component to support teachers with data analysis?

April L: <https://about.dataclassroom.com>

April L: Data Classroom

Dannielle D: Data_____???

Dannielle D: Thanks!!

Jerry C: Can you recommend an approach that teaches students how to investigate an environmental problem in an interdisciplinary way

James C: +++++ On discussion on making sure students have access to real, hands-on science data collection tools. It makes such a difference with our students that they have STEM for ALL. Each using the instruments regularly.

Larisa S: Great question, Jerry!

Kate P: <https://apps.apple.com/us/app/adw-pocket-guide/id916179421> ?????

Wanda B: <https://www.epa.gov/system/files/documents/2021-11/epa-strategic-plan-communications-fact-sheet.pdf>

Eileen B: +++ to Jerry's question

Kim Descoteaux: Visit the discussion on the Multiplex here <https://multiplex.videohall.com/playlists/3110#discussion>

Nancy W: Yes!!!! Thank you Beatriz!

April L: Very well described!!!

Betsy U: excellent Beatriz!

Larisa S: @Eileen @Jerry - my email is Larisa.schelkin@globalstemcenter.org - hope we can discuss it during the breakout session - thanks!

Kristian B: Love to talk with educators whose students are using geospatial / mapping technology in their projects. (Developing stories for our "Geospatial Revolution" web series.)

Jerry C: I might add for my high school students

Wanda B: I like the web idea activity!!

Joni Falk: BTW, we will share the chat with all of you when we send the recording of the webinar on Wednesday 😊

Wanda B: If possible, please include web idea activity.

Traci H: For an accessible, well developed, data platform with lots of PD support and that is free, I'd highly recommend CODAP <https://codap.concord.org>

Erin G: Beatriz, can you speak to how students were connected to community partners/community organizations? This is often so hard for schools/teachers to do, so I wonder about the role of an organization like yours in supporting/making this possible.

Barbara H: Are the economic considerations part of these solutions?

Martha A: @beatriz thank you so much for sharing

Alan B: Great session ... thanks Beatriz, Kirby and Rebecca ... and Nancy for facilitating. Wonderful wisdom, inspiring ideas. Thanks

Joni Falk: Everyone, please stay if you possibly can for the breakout session

Kim Descoteaux: As we move into the breakout rooms, please turn your video on and unmute yourself

Kim Descoteaux: BREAKOUT Introduce yourself briefly, tell about an experience that you have had with this type of work, or a question that you have.

Kim Descoteaux: A recording of this webinar along with a cleaned up version of the chat will be available tomorrow at https://multiplex.videohall.com/month_themes/17

Kim Descoteaux: Don't forget to visit the Multiplex at https://multiplex.videohall.com/month_themes/17 to join the follow on discussion

Wanda B: <https://www.epa.gov/enviroatlas/enviroatlas-interactive-map> @ Jerry might help?

Kim Descoteaux: Don't forget to visit the Multiplex at https://multiplex.videohall.com/month_themes/17 to join the follow on discussion

Susan C: US Forest Service. susan.m.cox@usda.gov

Dannielle D: Dr. Dannielle Joy Davis Saint Louis University djdavis@slu.edu

Jerry C: Wow it like midnight in Kenya now?

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Kim H: Thanks everyone for an engaging conversation. I appreciate your time and energy. Have a good week!

Elphas O: Yes, it's going to half past midnight here.

Martha A: Thank you everyone!

Erin G: Thanks everyone!

Kim Descoteaux: 2022 STEM for All Video Showcase
<https://stemforall2022.videohall.com/>

Kim Descoteaux: Don't forget to visit the Multiplex at
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Dannielle D: Thank you!

Jerry C: Will any of the panelists speak at Dept meetings to high school teachers about what they are doing to engage science and environmental problems solving

Erin G: Joni, can you say if the video showcase needs to be professional level videos?

Wanda B: Thank you!

Nancy W: Thank you so much!

Jerry C: thank you

Charlie M: Thank you all!