



Chat Transcript for NGCP Webinar Addressing STEM Stereotypes and Biases: Facilitating Challenging Conversations with Youth

September 15, 2021

Marisa Garcia to Everyone: welcome. Please introduce yourself and let us know where you are joining from and your role

Shay Saleem to Everyone: Hi this is Shay, Sr. manager of teen leadership programs at the Intrepid Museum, NYC

Cailee Smith to Everyone: Hi, everyone! Cailee Smith, Public Programs Manager at ECHO Leahy Center for Lake Champlain in Burlington, VT.

Linda Neenan to Everyone: Linda from iSPACE in Cincinnati

Amanda Sullivan to Everyone: Hi everyone! I'm Amanda Sullivan one of the speakers today! I'm joining from Oahu, Hawaii.

Ann Marie Garvey to Everyone: Ann Marie Garvey, Assistant Director of the Advanced Technology Center

Megan Ellingwood to Everyone: Megan from The Museum of Flight in Seattle

Mary Kate Wilkerson to Everyone: Hello! I'm Mary Kate Wilkerson from the University of Central Florida and I am the Coordinator of Women's STEM Programs.

Alison to Everyone: Alison from the Kentucky Science Center

MANASSED to Everyone: Dianna Manasse, Surprise, Arizona and I am a teen Librarian

Kayleigh B. to Everyone: Kayleigh B. Girl Scouts of NE Texas at the STEM Center of Excellence: Dallas, TX as the STEM Program Manager

Megan Boland to Everyone: Hello, I'm Megan Boland, Youth and Family Experiences Librarian from North Carolina

Jocelyn Steinke to Everyone: Hi everyone! I'm Jocelyn Steinke, associate professor of science communication at the University of Connecticut.

Ethan Greene to Everyone: Ethan Greene - New Mexico Out-of-School Time Network

Marta to Everyone: Marta Larson, Michigan After-School Partnership, STEM Consultant, Michigan GCP Lead

Paul Martinez (he/him) to Everyone: Paul, also from The Museum of Flight in Seattle

Marisa Bell to Everyone: Hello, I'm Marisa. Library parapro in Surprise, AZ

Dawnise Kozen to Everyone: Dawnise Kozen, YWCA Greater Pittsburgh

Mary Fuller to Everyone: Mary Fuller, Girl Scouts of Eastern Missouri, STEM Program Manager

Liz Coker (she/her), Cade Museum to Everyone: Hi! I'm Liz Coker, from the Cade Museum in Gainesville, FL.

Samantha Brasher Godsy to Everyone: Samantha Brasher Godsy, Programming Specialist at Auburn Public Library (Auburn, AL)

Lisa Regalla to Everyone: Lisa Regalla, Regallium Consulting ,coming to you from San Rafael, CA

Tiffany Flores to Everyone: I'm Tiffany Flores. I am the youth services librarian at eastern shore public library. Accomac, VA

Azucena Rodriguez to Everyone: Azucena Rodriguez, Argonne National Laboratory, STEM educator

Maryland Science Center to Everyone: Alysia and Karen from Maryland Science Center

Christy Anderson @ Project Scientist to Everyone: Hi - Christy Anderson from Project Scientist in Orange County CA

Michelle Grove to Everyone: Zooming in from Spokane, WA, I am the regional P-5 science coordinator for NE Washington state (59 school districts) and a statewide co director for Washington State LASER (Leadership and Assistance for Science Education Reform)

Kathleen Stevison- YES Program to Everyone: Kerry Stevison from the Saint Louis Science Center

Matthew Cross to Everyone: Matthew Cross, Library Technician Ak-Chin Indian Community Library. Currently running STEM programs of all types.

Casey Cushing (she/her) to Everyone: Hi! I work in the Education Department at the Monterey Bay Aquarium in California.

Jackie Jeambey (she/her) to Everyone: Jackie Jeambey, University of Colorado Science Discovery, Assistant Director of STEM programs, Colorado

Carlie Wright to Everyone: Hi everyone! I'm the Education Programs Coordinator at the ECHO Leahy Center in Burlington Vermont!

Elyse Mitchell (she/her) to Everyone: Elyse Mitchell, Enrichment Coordinator for Bridge to Enter Advanced Mathematics in New York City! Hello!

Ri Clark to Everyone: Hello All! Riana, Assistant Edu Director from Springfield MO Discovery Center of Springfield

Shay Saleem to Everyone: My response is to continue my preparedness in the conversation with students as well as staff

Melissa Pampel to Everyone: Hello from Children's Science Center in Fairfax, VA

Wendy Rowe to Everyone: Wendy from Massachusetts, I'm a retired electrical engineer and I volunteer some with kids

Mary Fuller to Everyone: @Kayleigh I believe our COO is visiting you soon to get some ideas for our own STEM center here in St. Louis area

Jolene Gustafson (she/her) to Everyone: Hello! Jolene Gustafson from NGCP, joining from Minnesota.

Kata Lucas (she/her) to Everyone: <https://ngcproject.org/>

Beth Nickel, Arizona Science Center to Everyone: Beth Nickel, Arizona Science Center I oversee with our teen programs

Karen to Everyone: Hello everyone!

Kata Lucas (she/her) to Everyone: <https://www.ifthenshecan.org/>

Kata Lucas (she/her) to Everyone: <https://ngcproject.org/girls-advisory-board>

Kata Lucas (she/her) to Everyone: <https://theconnectory.org/>

Kata Lucas (she/her) to Everyone: <https://www.fabfems.org/>

Kata Lucas (she/her) to Everyone:

A great resource - The State of Girls and Women in STEM:

https://ngcproject.org/sites/default/files/ngcp_stateofgirlsandwomeninstem.pdf

Marisa Garcia to Everyone: welcome, everyone! please use the chat to ask questions throughout the presentation

Marisa Garcia to Everyone: and please share resources you use here as well!

Marisa Garcia to Everyone: Hi folks. we've created a resource document to share all of the great links shared throughout this webinar. follow along here:

NGCP Webinar Resource Page: Addressing STEM Stereotypes and Biases:
https://ngcproject.org/sites/default/files/documents/ngcp_webinar_resources_for_addressing_stem_stereotypes_and_biases.pdf

Timothy Fowler to Everyone: Shout out to St. Louis where I lived for 20 years!

Shay Saleem to Everyone: Can all resources be shared with attendees via email as well?

Marisa Garcia to Everyone: Hi Shay. we will link that PDF to the event page and share it after the webinar

Megan Ellingwood to Everyone: are the papers available for download for free or do you need a subscription/pay for them?

Megan Ellingwood to Everyone: Talking about Amanda's research papers specifically

Marisa Garcia to Everyone: we can ask Amanda in the Q&A

Marisa Garcia to Everyone: thanks for the question!

Sara Kobilka to Everyone: I did try opening one of the papers from her publications page of her website and I was able to read it.

Marisa Garcia to Everyone: great! thanks, Sara

Sara Kobilka to Everyone: <https://www.amandaalzenasullivan.com/publications>

Megan Ellingwood to Everyone: 👍

Sara Kobilka to Everyone: As a mom of a 5-year-old I can absolutely attest to this!

Shay Saleem to Everyone: Will there be Q&A after each speaker or after the full panel?

Sara Kobilka to Everyone: After the whole panel

Marisa Garcia to Everyone: we will have Q&A after the full panel

Shay Saleem to Everyone: Thx

Michelle Higgins (she/her) to Everyone: DOT = Do One Thing!

Marisa Garcia to Everyone: For those who may have missed it, here is the Resource list:

NGCP Webinar Resource Page: Addressing STEM Stereotypes and Biases:
https://ngcproject.org/sites/default/files/documents/ngcp_webinar_resources_for_addressing_stem_stereotypes_and_biases.pdf

Mary Fuller to Everyone: Yay for Girl Scouts!

Marisa Garcia to Everyone: :) Mary, representing from GS of Eastern Missouri! happy to have you here

Marisa Garcia to Everyone: you can ask questions here in the chat, or use the raise hand feature during Q&A and ask your question live

Marisa Garcia to Everyone: the importance of role models! yes

Amanda Sullivan to Everyone: Role models are SO important! Have found this beginning at the early childhood level too!

Marisa Garcia to Everyone: that's great Amanda. I wonder how interactions may differ between role models with young kids and role models with older youth, like teens?

Marisa Garcia to Everyone: this framework of what, so what, now what is helpful!

Amanda Sullivan to Everyone: having older girls or high schoolers serve as role models or facilitate STEM discussions & activities with younger children can be a really powerful experience! Maybe a good "now what" for high school girls thinking about what to do next.

C Spratley to Everyone: I facilitate a SC STEAM Teen Group that is part of the National Teen Science Café Network and it is a great way to reach girls and underserved communities and minorities at the middle and high school level. The teens formed an advisory and they run the cafes. We include 8th -12th and we have great conversations and hands on activities with scientists, researchers and professionals in STEAM careers. Check out teensciencecafe.org to find out more!

Marisa Garcia to Everyone: yes! I know the EngineerGirl Ambassador's program is doing that

Marisa Garcia to Everyone: yes, teen science cafes are terrific! happy to have you here!

Amanda Sullivan to Everyone: So cool, thanks for sharing!

Marisa Garcia to Everyone: near peer role models, so great!

Amanda Sullivan to Everyone: YES!

Shay Saleem to Everyone: I'm very interested in the hard conversations about the most current societal unrest regarding harm to black and brown bodies that may affect their STEM retention — our responsibility as the adults, activists, educators and more have so much work to do to help cultivate and help student cope with WHAT NEXT AND SO WHAT

Marisa Garcia to Everyone: yes, important context Shay. we may not address that fully in this webinar, but the Resource document has links to previous NGCP webinars that may add to that. It's also something we are all continuing to learn about and collaborate on

Shay Saleem to Everyone: Thank you for letting me know Marisa. I will surely review

Marisa Garcia to Everyone: if you have resources you have found helpful feel free to share them in the chat

Marisa Garcia to Everyone: we'd love to learn from all of you here today!

Elyse Mitchell (she/her) to Everyone: Ditto Shay! That's a topic that's close to my heart. Here's a great book I'd suggest: <https://www.hepg.org/hep-home/books/black,-brown,-bruised>

Marisa Garcia to Everyone: thank you for sharing Elyse!

Shay Saleem to Everyone: Wonderful thank you Elyse, much appreciated!

Marisa Garcia to Everyone: taking talking into action!

Amanda Sullivan to Everyone: yes! agreed!

Mary Kate Wilkerson to Everyone: Will this webinar be available to view after today? I would love my co-worker to be able to see this as well.

Kata Lucas (she/her) to Everyone: Yes, you will receive an email with the recording!

Mary Kate Wilkerson to Everyone: Thank you!

Shay Saleem to Everyone: Wonderful strategies Tim, I too utilize many of these types, like circle groups, peer conversations, group norms, etc. Giving time and space is so important, inclusive of follow up and accountability.

Marisa Garcia to Everyone: this reminds me of helping students learn from failure in things like engineering - you as the engineer did not fail, the technology did. it switches the focus so they can move forward and improve the design

Liz Coker (she/her), Cade Museum to Everyone: Love the reflection aspect of this!

Shay Saleem to Everyone: Agreed Tim!!

Samantha Brasher Godsy to Everyone: As a "boy mom" who also works to incorporate STEM in library programming for children, tweens and teens, I REALLY appreciate the ideas for how to adjust educational approach based on sex. I am striving to raise a son who, as a grown up,

acknowledges his privilege as a white man and leverages that privilege to promote diversity, inclusivity, and personal accountability.

Marisa Garcia to Everyone: thanks for sharing, Samantha!

Shay Saleem to Everyone: Helping to address retention and sustainability of women in STEM is still such a huge topic, especially for Black and Latinx girls

Marisa Garcia to Everyone: definitely, shay

Amanda Sullivan to Everyone: Samantha - YES to everything you said! As a mom to a boy and a girl I completely relate and have started having the difficult conversations with my preschool age sons lately myself.

Shay Saleem to Everyone: Agreed safer-braver spaces is key, especially in these virtual settings

Timothy Fowler to Everyone: One thing I recommend in youth work is multiple opportunities for leadership across the program. Every young person should get a chance to play multiple roles--including leadership--to try those roles on for size and learn how teams function. I think this helps develop confidence, self-awareness, but also mutual respect. Because when they leave my/our programs they may not get those opportunities, and then the self-doubt and discouragement can set in.

Amanda Sullivan to Everyone: yes - agreed, Shay!

Shay Saleem to Everyone: ^^

Shay Saleem to Everyone: Thanks Tim!

Samantha Brasher Godsy to Everyone: Love that idea, Tim!

Shay Saleem to Everyone: @Amanda- how do we help younger students uncover their biases or biases absorbed from family/immediate people in household

Mary Fuller to Everyone: I love a show and tell!

Lisa Regalla to Everyone: THANK YOU!! Wonderful information

Sara Kobilka to Everyone: If you want to reach me, my email address is sara@renwomanconsulting.com

Laura Dillon to Everyone: Great presentations and discussions! Thanks!!

Shay Saleem to Everyone: Thank you, would love to reconnect with speakers

Emily Morgan to Everyone: Thank you!

Timothy Fowler to Everyone: Timothy can be reached at timothy@networkforyouthsuccess.org

Wendy Rowe to Everyone: thanks!

Amanda Sullivan to Everyone: Shay gosh that is such a big question! I am someone who grew up hearing "boys are better at math" from my mom. With very young children I've found a lot of these ideas do come up in play and casual conversations

Liz Coker (she/her), Cade Museum to Everyone: Thank you all! This was wonderful!!

Katherine Rivera to Everyone: Thank you all!

C Spratley to Everyone: Very helpful. Thanks for opening this for everyone to attend free!

Kata Lucas (she/her) to Everyone: Please take our Survey:

<https://forms.office.com/r/LrAQQdEWFa>

Ri Clark to Everyone: Thank you for this very informative webinar!

Elyse Mitchell (she/her) to Everyone: Thanks for ending promptly, thanks to the speakers and thank you NGCP for sharing these AMAZING resources!

Megan Ellingwood to Everyone: Thank you this was great!

Kelly Mucci to Everyone: Thank you!

Amanda Sullivan to Everyone: Thanks everyone - stay in touch! Learned so much!!

Emily Davis (she/her/hers) to Everyone: Thanks everyone - super informative and engaging conversation!!