



**Chat Transcript for NGCP webinar:
Neurodiversity and STEM Education**
September 21, 2020

Kata Lucas (NGCP): Welcome! Please introduce yourself in the chat.

don.carter : Howdy. I'm Don Carter from The Bend Senior HS

Jenny Roe @ Imagination Station : Hello! I am Jenny Roe, Education Coordinator at Imagination Station Science Center in Toledo, OH.

Becca (Mid-AmericaScienceMuseum) : Hey! I'm Becca from the Mid America Science Museum in Hot Springs AR

Jessica Williams : I'm Jessica Williams, Outreach Coordinator for Discovery Center Museum in Rockford, IL

Tamitha C. Tidwell : Tamitha Tidwell from University of Washington's DO-IT Program

Dave Jaffe : Hi I am Dave Jaffe and I teach an assistiove technology course at Stanford. Check out the course website at <http://engr110.stanford.edu>

Patricia Young : Hello from Fairfield, CA and Solano Community College

Marisa Garcia : Welcome everyone! Marisa joining today from the Boston area

Vanessa : Hello: I'm Vanessa Spradlin from the Sequoyah Regional Library System. Good to meet everyone

Linda - NCMNS Staff : Hello, I'm Linda Saah joining as an non-formal educator with the North Carolina Museum of Natural Sciences in Raleigh, NC.

Jessica Wang : Hi there, I'm Jessica Wang from Bellevue College in Bellevue, Washington

Lydia Katzel : Good afternoon, I am Lydia from King County Library System in Washington state

Carol Mahoney : Hi! I'm Carol from Annapolis, Maryland. I run a makers-ace/STEAM lab for grades 1-4 at an independent school.

Cary Rogers : Cary Rogers Education Program Consultant with the Kansas State Department of Education

Jennifer M : Jennifer from Portland, OR - Science TOSA.

Cathie Spencer : Hi everyone, Cathie Spencer from Ontario Science Centre in Toronto Canada.

Rachel Wilson : Rachel, Outdoor Curriculum Specialist (AmeriCorps member) at the NC Museum of Natural Sciences

Denean : Denean, homeschool educator, Batesville Memorial Public Library, Indiana

Brittany Leigh Burgess : Hi Brittany Burgess from University of Michigan Museum of Natural History in Ann Arbor, MI

Kmikkola : Kris from Science Museum of Virginia

Adrienne : Hello! Adrienne, NASA Solar System Ambassador, Indiana!

Kellyanne H. : Kellyanne. Children's Librarian, Parsippany & Whippany, NJ

Lev Horodyskyj : Lev from University of the Virgin Islands, and Science Voices

Kellyanne H. : Hello, all!

Toni Sperzel : Good Afternoon from New York. My name is Toni Sperzel and I am the Assistant Dean for Diversity and Inclusion in the Graduate School at Stony Brook University in Stony Brook, NY

Sarah Huibregtse : Sarah currently in Ohio teaching as an Assistant professor of Computer Science at the University of Mount Union.

Glenna Lydick : Hello , Glenna Lydick , Education and Programs Coordinator at the SEE Science Center in Manchester NH

Rachel Ward-Maxwell : Hi all, Rachel Ward-Maxwell from Ontario Science Centre in Toronto, Canada.

Jennifer M : I'm not seeing a poll.

Meg Richard : Hello! I'm Meg, K-12 Science Consultant for Kansas Department of Education. I'm excited to be here!

Scott Bellman : Hi everyone! Scott here from the University of Washington. we began our "Neuroscience for Neurodiverse Learners" program in January.

Amy Olson : Amy Olson, KY Department for Library and Archives, Youth Services Consultant as well as adjunct professor at University of Kentucky School of Library Science.

Michele Baldwin : Hello. I am Michele Baldwin working at the NC Museum of Natural Science in Raleigh, NC working in youth engagement

Gwen Elliott : Hello, I'm Gwen from Cincinnati Museum Center in Ohio. I'm also the mom of a Neurodiverse preteen.

Vanessa VanZant-Macy, Ohio : Hello everyone, Vanessa VanZant Macy from Cincinnati Museum Center

Michele Baldwin : Will this be recorded?

Ricky Scott : Hi everyone. I'm Ricky Scott, I'm the Secondary Science Specialist for the Utah State Board of Education.

Katherine Weber : Hello! Katherine Weber from Kitchener, Ontario Canada .. hello to my fellow Canadian from the Science Center!

Caitlin : Caitlin from Girls Inc. of the Valley Elementary Program Facilitator

Peter Mecca : Hello. I'm a recently retired high school biology teacher and currently an adjunct professor.

Tori Duval (she/her) : Hi everyone! Tori Duval, Outreach Education Specialist for the WNC Nature Center in Asheville NC

Scott Bellman : audio is great

Lyric (they/no pronouns) : Hi everyone! I'm Lyric from Girls Inc. of The Valley, a program facilitator for elementary aged girls!

Caroline Appleyard : hi Everyone - Caroline Appleyard, Professor and Program Director for a biomedical Graduate Training Program in Ponce, PR

Nissa : Hi everyone, my name is Anissa from Girls Inc. of the Valley as an elementary school program facilitator.

Casi Herrera, National Girls Collaborative Project : NGCP Website - <https://ngcproject.org/>

D. Scott Heister : I am the MiSTEM Director for Southeast /South Center Michigan

Abby : Hi there, I'm Abby. I run maker programming at a branch of the Harris County Public Library.

jgroenert : Stem Ed Instructors at the Science Museum of MN

Casi Herrera, National Girls Collaborative Project : The Connector - www.theconnector.org

Casi Herrera, National Girls Collaborative Project : FabFems - www.fabfems.org

William Fee : William Fee, Lead Instructor, STEMLab at the State Library of PA

Casi Herrera, National Girls Collaborative Project : IF/THEN Collection - <https://ifthencollection.org/>

Peter Mecca : I know this program is recorded, will we get a link to review all the URLs posted in the Group Chat?

Casi Herrera, National Girls Collaborative Project : Neurodiversity Navigators - <https://www.bellevuecollege.edu/autismspectrumnavigators/>

Casi Herrera, National Girls Collaborative Project : Autistic at Work - <https://autisticatwork.com/>

Casi Herrera, National Girls Collaborative Project : Stairway to STEM - <https://www.stairwaytostem.org/>

Casi Herrera, National Girls Collaborative Project : Identity-first Language - autisticadvocacy.org/identity-first-language/

Casi Herrera, National Girls Collaborative Project : NEUROCOSMOPOLITANISM - <http://neurocosmopolitanism.com/neurodiversity-some-basic-terms-definitions/>

Casi Herrera, National Girls Collaborative Project : Plain Language - www.plainlanguage.gov

Casi Herrera, National Girls Collaborative Project : <https://www.plainlanguage.gov/>

Casi Herrera, National Girls Collaborative Project : Please feel free to type any questions you have for Sara in the chat here.

Beth Rosenberg : Will we get the PPT after? thanks!

Steve Long :) : Great diagram showing surface culture versus deep culture!

Casi Herrera, National Girls Collaborative Project : @Beth - the PowerPoint deck and recording will be posted to the original event listing after the call.

Meg Richard : This is a great visual!

Casi Herrera, National Girls Collaborative Project : Original event posting - <https://ngcproject.org/neurodiversity-and-stem-education>

Casi Herrera, National Girls Collaborative Project : We will also send out an email follow up linking you to the original event link where all these resources will be posted.

Casi Herrera, National Girls Collaborative Project : Plain Language - <https://www.plainlanguage.gov/>

Steve Long :) : Question: How do we know when we are dealing with a neurodiverse person so that we can change our communication style?

Dave Jaffe : Plain communication is important even when interacting with my Stanford students!

Becca Neubardt : you can just apply universal design! all of these things are helpful for neurotypical people too

Vanessa : Thank you!

Becca Neubardt : thank you sara!

Cheri Burch : Thank you.

Tamitha C. Tidwell : Thanks for the shout out Sara! Great info.

Caroline Appleyard : So many of these tips apply when interacting with neurotypical people across cultures and coming from different countries

Rachel.wellman@bellevuecollege.edu : Always learning from Sara! Thank you!

Deepti Karkhanis (she/her) : Thank you Sara for always providing good ideas and points to think about!

Patricia Young : Thank you Sara! This was extremely helpful and practical..

Vanessa : A lot of these tips are also very useful for conflict resolution between neurotypicals as well. It's always good to go into conversations without preset assumptions

Adrienne : Maybe there need to be a range of definitions of what "teamwork" is?

Katherine Weber : What are some tips could teachers consider to accommodate for team activities for student who struggle with working in a groups?

Meg Richard : I appreciate that perspective Adrienne; I would love ideas on supporting discourse more than teamwork.

Jennifer M : @Meg, I

Dave Jaffe : I have found clear, concise communication is critical to avoid mis-matches in expectations.

Jennifer M : @Meg, I've found this helpful for supporting student discourse. <https://www.openscienced.org/wp-content/uploads/2020/04/Resources-for-Remote-Teaching-Discourse.pdf>

Katherine Weber : This is very interesting. I am guilty for using groupwork often with students. I never really thought there are some students who struggle within the group. Thank you for sharing your experiences Elinore! Many of the things you suggest would be helpful to other students.

Carol Mahoney : Love the idea of allowing ear muffs

Lisa Gethard : Agree. Quiet Room is helpful for concentration when taking tests.

Jason San Souci : These are wonderful ideas!

Sara Gardner : I always allow students to opt out of group work, however, I provide extremely clear instructions, scaffolded group meetings, clearly defined roles, etc. so they CAN access group work if desired

Vanessa : Calendars in syllabi were integral for me, too.

Linda - NCMNS Staff : Yes, so true!

Lisa Gethard : Yes. I experienced sitting for 4 hours sitting in a classroom while wearing steel-metal braces on legs with only a 5 minute break. No allowance for typing notes despite the course to be held online.

Carol Mahoney : You are wise beyond your years Elinore.

Ricky Scott : Thank you Elinore! Your information was priceless. Thank you for sharing your experiences and stories.

Vanessa : Thank you!

Peter Mecca : Elinore - thank you for sharing your experiences and tips. As a former high school biology/environmental science teacher, I was fortunate to work with all types of students with differing abilities. What was successful for me and my students was that I worked with a co-teacher who was certified in both special education and science. In addition, I would assemble of team of other professionals - reading teachers, case managers, etc.

Abby : There are a lot of ways to create groups that's a little more sensitive to classroom relationships- I know in some classes we were asked to secretly provide a name of a person we wanted to work with and a person we didn't want to work with to the teacher.

Adrienne : Thank you, Elinor! Powerful words!

Lisa Gethard : The experience turned into a difficulty of a broken foot in 3 places that is still healing. Virtual learning is working much better through various online platforms.

Lyric (they/no pronouns) : Thank you Elinor!

Patricia Young : Thank you Elinore for being open and practical.

Irej : Thank you Elinore! Even those little tips where things I never considered

Steve Long :) : Elinore, as the father of a neurodiverse son, I appreciate you sharing your experiences. It gives me hope that my son will find a similar path for himself. Best of luck to you!!!

Leah DeWolf : Thank you Elinore. I have a 10 y.o. who is autistic and brilliant and struggles in school. I will share your advice with their teacher.

Diane Watson : Thank you, Elinore, for the tip that compassion goes a long way, with your example of your wrist and those who acknowledged your pain

Gabrielle Graham : Question: How many years were you able to be in the gifted program, and do you think it would have been better to continue on later than you did. A lot of times it ends after elementary school.

Deepti Karkhanis (she/her) : Thank you, Elinore for your candid and insightful talk. wish you the very best for your academic endeavors.

Connie Syharat : Re: changes to the syllabus - I am working with a group of faculty from the University of Connecticut (UConn) who are revising courses to be more inclusive for neurodiverse students. They have decided to all include a LIVE google document/calendar that is regularly updated with any changes.

Irej : Connie that is such an amazing idea!

Becca (Mid-AmericaScienceMuseum) : When I have done teamwork projects I always appreciated the chance to self evaluate my group members. This was my chance to share my experience in the group. Some of these evaluations have led to my professors requesting more information and we have had scores adjusted because of the work of other people. I think the hardest part is having my score based on the work of other people.

Lisa Gethard : Thank you so much Elinore and Sara! Wonderful discussion and excellent suggestions.

Vanessa : Yeah @Connie, definitely an idea I'll keep in mind if it becomes relevant

Lisa Gethard : Yes! I have experienced this in the past including the presentation.

Vanessa : relevant for me*

Lisa Gethard : Right.

Discovery Museum : Is Microsoft translator a free program?

Sara Gardner : Yes

Sara Gardner : search Microsoft translator for education - it is an app for Powerpoint

dalemccreedy : I would also like to hear what you think about synchronous and asynchronous

Jennifer M : Grief and needing to ground in various way are really important to acknowledge!

Discovery Museum : Thanks. Sorry, one more question @sara. Is it live captioning or does it feed in text from PPT?

Dave Jaffe : <https://www.microsoft.com/en-us/translator/education>

Discovery Museum : Thanks

Corinne Flax : Thank you so much! I have to head out to another meeting

Sara Gardner : it's auto captioning, however it reads your PPT prior so it knows the words from the PPT

Deepti Karkhanis (she/her) : Any tips on what works well and is supportive for neurodivergent students in an asynchronous course this year?

Casi Herrera, National Girls Collaborative Project : As some of you are preparing to leave, please make sure you complete the webinar survey: Survey link

<https://ngc2018.typeform.com/to/mJa8AmlD>

Sara Gardner : We have weekly meetings with them, and also support them with text message reminders if they want them You could also support them with setting up phone reminders - to log on every day for example

Lisa Gethard : Thank you so much everyone! This has been fabulous and I look forward to keeping connected.

Casi Herrera, National Girls Collaborative Project : Webinar Survey link

<https://ngc2018.typeform.com/to/mJa8AmlD>

Patricia Young : Hello, can you make the survey live? It says the creator has to open it?
Thank you so much

Adrienne : Thank you everyone. Great to hear you want to teach, Elinor!

Elinore Gaitan : Thank you everyone! It has been an honor!

Connie Syharat : @Elinore thank you for sharing your perspective!!

Casi Herrera, National Girls Collaborative Project : Many apologies. We will send the link as a follow up.

Becca Neubardt : thank you all!

Peter Mecca : Very informative. Great program!

Gabrielle Graham : Thank you for your time!

Caitlin : Thank you! It was very informative!

Irej : thank you!

Denean : thank you

From Cathie Spencer : Thank you!