



JULY 15th & JULY 27th 

US K-12 STEM Education

PANEL 1: How policy and local context shape STEM education
JULY 15th | 6:30-8:00 PM ET

PANEL 2: How teaching and curriculum design can advance equity and justice in STEM
JULY 27th | 7-8:15 PM ET



WEBINAR: Hear from science and education professionals working to improve STEM educational access in their communities, and learn how you can get involved! **RSVP:** <https://www.esal.us/k12-stem/>

US K-12 STEM Education

Links to Relevant Resources

About our Speakers

- *Speaker Information (Panel 1)*
 - Dr. Jeremy Babendure:
 - Bio: <https://scitechinstitute.org/team-members/jeremy-babendure/>
 - SciTech Institute: <https://scitechinstitute.org/>
 - STEM Ecosystems: <https://stemecosystems.org/>
 - Mr. Andrés Henríquez:
 - Bio: <https://www.edc.org/staff/andres-henriquez>
 - Education Development Center: <https://www.edc.org/>
 - Dr. Monica Taylor:
 - Bio: <https://delcopa.gov/electedofficials/taylor.html>
 - Dr. Kayla Davis:
 - Bio: <https://toservebetter.harvard.edu/profile/ok-kayla-davis/>
 - CodeSciLab: <https://www.codescilab.org/>
- *Speaker Information (Panel 2)*
 - Dr. Rasheda Likely
 - Bio: <https://bagwell.kennesaw.edu/departments/eece/faculty/ece-faculty-index.php>
 - Mr. Sam Long
 - Bio: <http://sam-long.weebly.com/>
 - Gender-Inclusive Biology Curriculum: <https://www.genderinclusivebiology.com/>
 - Dr. Daniel Morales-Doyle:
 - Bio: <https://education.uic.edu/profiles/daniel-morales-doyle/>

Keep Learning

- *Reading Materials*
 - [Call to Action for Science Education: Building Opportunity for the Future](#) (National Academy Press)
 - [Advocating for Science and STEM Education](#) (National Science Teachers' Association)
 - [Science and Engineering for Grades 6-12](#) (National Academy Press)
 - [Identifying and Supporting Productive STEM Programs in Out-of-School Settings](#) (National Academy Press)
 - [Science and Engineering Indicators Report STEM Education Data](#) (National Science Foundation)
 - [STEM Education for the Future](#) (National Science Foundation)
 - [Booklist for educators and other resources](#) from Science Educators for Equity, Diversity, and Social Justice
 - [Association of Science and Technology Centers](#)
 - [Impacts of attending an inclusive STEM high school: meta-analytic estimates from five studies](#)
- *ESAL Resources:*
 - Local Engagement Playbook: <https://www.esal.us/playbook/>
 - Past event (incl. video), "Creating Safe Post-Pandemic School Systems: The Role of the Built Environment": <https://www.esal.us/blog/creating-safe-post-pandemic-school-systems/>
 - Blog post, "Applying Systems Knowledge to a School Board": <https://www.esal.us/blog/applying-systems-knowledge-to-a-school-board/>
 - Blog post, "Making a Difference on a School Board": <https://www.esal.us/blog/making-a-difference-on-a-school-board/>
- *Community:*
 - Science Educators for Equity, Diversity, and Social Justice (virtual reading roundtables, community meet ups, conference, and more): <https://sites.google.com/view/seedshome/seeds-home?authuser=0>

Get Involved

- *Mentoring/Education Volunteer Opportunities:*
 - National Opportunities:
 - Skype A Scientist: <https://www.skypeascientist.com/>
 - Letters to a Pre-Scientist: <https://www.prescientist.org/>
 - CodeSciLab: <https://www.codescilab.org/>
 - Currently looking for volunteers in content creation and education outreach. Email <CodeSciLab@gmail.com> to learn more
 - Chief Science Officers Program: <https://chiefscienceofficers.org/the-program/>
 - Boys and Girls Club of America: <https://bgca.org/>
 - FamFems: <https://www.fabfems.org/>

- Black Girls Code: <https://www.blackgirlscode.com/>
 - The Social Scientist: <https://www.thesocialscientist.org/>
 - Science in the Classroom: <https://www.scienceintheclassroom.org/>
 - STEM Ecosystems: <https://stemecosystems.org/>
 - Techbridge Girls: <https://www.techbridgegirls.org/>
 - Local Opportunities:
 - BioBus (New York): <https://www.biobus.org/at-home/>
 - Science Club for Girls (Massachusetts): <https://www.scienceclubforgirls.org/>
 - SciTech Institute (Arizona and National): <https://scitechinstitute.org/>
 - Health CareerX Academy (Philadelphia): <https://healthcareeracademy.org/>
 - Santa Fe Alliance for Science (New Mexico): <https://www.sfafs.org/>
 - Minnesota Academy of Science (Minnesota): <https://www.mnmas.org/volunteer>
 - Girlstart (California, Massachusetts, Texas): <https://girlstart.org/about-us/>
 - Reset (Washington DC, Maryland, Virginia): <https://resetonline.org/>
 - AAAS list of 'in the classroom' volunteer programs: <https://www.aaas.org/programs/STEM-volunteers/US-volunteer-programs>
- **Advocacy Organizations:**
 - STEM Education Coalition: <http://www.stemedcoalition.org/>
 - STEMx: <https://www.stemx.us/>
 - STEM Ecosystems: <https://stemecosystems.org/>
 - Advocacy Toolkit: <https://stemecosystems.org/resource/advocacy-toolkit/>
 - National Science Teachers Association: <https://www.nsta.org/>
 - Afterschool STEM Hub: <http://www.afterschoolstemhub.org/>
- *Organizations spotlighting diversity in STEM (with opportunities to contribute and/or join the community)*
 - Technolochicas: <https://technolochicas.org/>
 - 500 Women Scientists: <https://500womenscientists.org/>
 - 500 Queer Scientists: <https://500queerscientists.com/>
 - FabFems: <https://www.fabfems.org/>
 - Project Biodiversify: <https://projectbiodiversify.org/>
 - The Scientist Spotlight Initiative: <https://scientistspotlights.org/>

Content resources for STEM Education initiatives

- Learning in Places: <http://learninginplaces.org/>
- OpenSciEd: <https://www.openscienced.org/>
- LabXchange: <https://www.labxchange.org/>
- Science Buddies: <https://www.sciencebuddies.org/>
- Gender-Inclusive Biology: <https://www.genderinclusivebiology.com/ourteam>
- STEP UP: <https://engage.aps.org/stepup/home>
- Project Biodiversify: <https://projectbiodiversify.org/sex/>