STEMteachersEXPO

For Teachers • By Teachers • About Teaching

STEMteachersEXPO 2020 PROGRAM
Growing Responsive STEM Communities
October 24 – 25, 2020 Online

FRIDAY OCTOBER 23, 2020 | 2:45-4:15pm PST, 4:45-6:15pm CST, 5:45-7:15 PM EDT

Community Mixer

SATURDAY OCTOBER 24, 2020 | 9:00-10:30am PST, 11:00-12:30pm CST, 12:00-1:30pm EDT

Welcome and Keynote Speakers

Re-Building Trusting Relationships: Lessons Learned from Enacting Culturally Relevant Pedagogy | Dr. Sheila Borges Raiguru, *Rutgers University*

How the NGSS Science and Language Instructional Shifts Support Each Other for English Learners | Dr. Okhee Lee, *NYU Steinhardt*
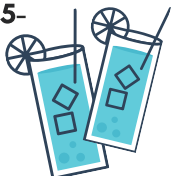
SATURDAY OCTOBER 24, 2020 | 10:45-12:15pm PST 12:45-2:15pm CST, 1:45-3:15 PM EDT

Day 1: Block B

CULTURALLY RESPONSIVE STEM

Culturally Responsive STEM: Cultivate Your Students Voices Using Open-Source & Maker Resources | Amanda Grutza, Portfolio School & Pixel Academy, NY/ STEMteachersNYC

STEPUP #1. Careers in Physics | Melissa Girmscheid, West Point HS, Phoenix AZ STEMteachersPHX, Jeremy Secaur, Elyria HS, OH STEMteachersCLE

Science is LiT! Using Narrative Nonfiction and Storytelling Strategies to Assess Student Understanding of Science Content | Dr Elondra Napper, Encouraging Champions, Seven Springs NC

OpenSciEd 1 – Structures and Strategies that Support Emerging Multilingual Students' Content and Language Development | Sarah Delaney and James Ryan, San Francisco CA

Where Is The Racism In Your School? | Tanea Hibler, Brophy College Prep, Phoenix AZ/ STEMteachersPHX

GENERAL STEM

Fostering a Positive Culture of Error in Middle School Math | Sinclair Wu, San Francisco CA

Quantum Physics Outreach Program (QPOP)! From quantum theory to quantum technology: how the laws of the microscopic world are shaping our future | Sebastian Will, Dept. of Physics, Columbia University, and Paul Bianchi Horace Greeley HS NY Prof. Sebastian Will,

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Day 1: Block C

CULTURALLY RESPONSIVE STEM

How to Teach STEM in a Culturally Responsive Manner | Sugandhi Chugani and Desmond Martin, NextWaveSTEM, Chicago IL

Plastic Bag Challenge! | Jennifer Cheesman, Zuni Hills Elementary, Sun City AZ/ STEMteachersPHX

Unteaching and Unlearning: Decolonizing Math History and Education | Martina Meijer, PS139K, NY/ STEMteachersNYC

OpenSciEd 2 – Supporting Equitable Access to High-Quality Science Learning Experiences for All Students | Sarah Delaney and James Ryan, San Francisco CA

GENERAL STEM

The POWARR™ of Student Collaboration in Virtual STEM Classrooms | Dr Marquita Blades, POWARRful Teaching Strategies, Powder Springs GA

Evaluating our STEM Professional Development Workshops |Yadana Nath Desmond, Yi Li and Jackie Gaston, STEMteachersNYC

Maintaining well-being whilst working online | Aishling Dean, My Little School, Riyadh SA

Using Pivot Interactive for Science Practices in Biology, Chemistry, and Physics | Peter Bohacek, Henry Sibley HS, Afton MN

STEMCoding: Coding Integration in high school Physics and Physical Science classrooms | Celestina Pangan, Chavez High School, Houston TX

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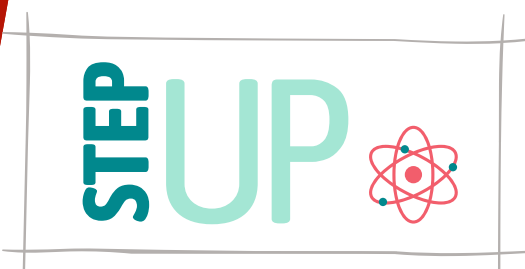**SATURDAY OCTOBER 24, 2020 | 2:45–4:15pm PST, 4:45–6:15pm CST, 5:45–7:15 PM EDT**

Day 1: Block D

WORKING GROUPS

CULTURALLY RESPONSIVE STEM

STEPUP #2. STEP UP: A Social Movement to Promote Cultural Change in Physics | Jason Sullivan, Mariel Kolker, Natasha Collova, Shannon Greco, Montgomery HS, NJ/ STEMteachersNYC

GENERAL STEM

Amazingly Versatile STEAM Activities Using Only Paper, Tape & Scissors | Godwyn Morris and Paula Frisch, Skill Mill NYC

STEM+C: Using Tinkercad in the Classroom | Isabel Mendiola and Peter Haydock, Hingham WI

Culture building through GAMES on Zoom | Elissa Levy, Life Science Secondary School NY/ STEMteachersNYC

Vernier Software and Technology tools for Remote learning and beyond | David Carter and Gary Myers, OR

PyMol! Strengthening virtual Chemistry and Biology instruction through 3D modeling | Daniel Fried and Maria Voigt

SUNDAY, OCTOBER 25, 2020 | 9:00–10:30am PST, 11:00–12:30pm CST, 12:00–1:30pm EDT

Day 2: Block A

CULTURALLY RESPONSIVE STEM

Planning for Culturally Responsive Teaching | Raxha Bhagdev, Hamilton High School, Chandler AZ/ STEMteachersPHX

Increasing Equity in STEM curriculum via Local Alumni Focus Groups | Chris Resch and Glen Stuart, Montgomery HS, NJ/ STEMteacherNYC

STEMSS Lessons To Support Language Learners | Karen Guerrero, Arizona State Univ, Mesa AZ

Grading With Equity In Mind | Tanea Hibler, Brophy College Preparatory, Phoenix AZ/ STEMteachersPHX, and Ariel Serkin, Norfolk County Agricultural HS, Warpole MA/ STEMteachersMassBay

GENERAL STEM

Simple, Fun, and engaging STEM lessons | Spencer Sharp, Southern Wells Elem School, W Poneto IN

Teaching with Scientific Articles and Research | Evie Wong, Science With Evie, NY
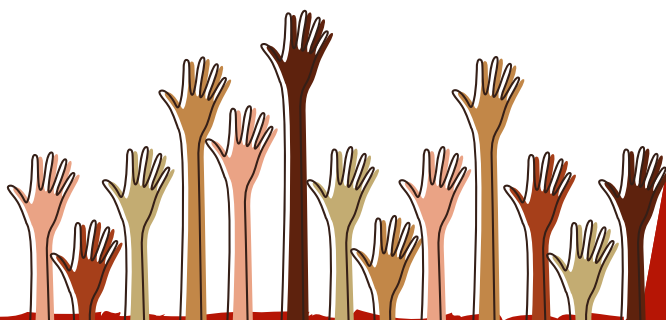
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Day 2: Block B

KEYNOTE CONVERSATIONS

9:00-10:30am PST, 11:00-12:30pm CST, 12:00-1:30pm EDT

Adapting Lessons or Changing Practice?: Unpacking the stories we tell to advance equity in our classrooms | Dru Collins-Minch, Director of Educational Equity, and Dr. Gloria Rosario-Wallace, Shanique Leonard, Michael Hardy, NYCDOE Office of Equity & Access

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STEMteachersORGS "Reflections on Starting & Nurturing a Teacher-led STEM Community" | Fernand Brunschwig STEMteachersNYC, Wendy Hehemann STEMteachersPHX, Tiffany Taylor STEMteachersNWA

Perspectives on Diversity, Equity & Inclusion Programs in Schools | Motoko Maegawa The Catherine Cook School, IL, Brian Filiatraut, Poly Prep Country Day School, NY/ STEMteachersNYC, Kim Chaloner, Grace Church School, NY

CULTURALLY RESPONSIVE STEM

Widening the Lens of Environmental Science Education | Caroline Doherty, Expeditionary School for Community Leaders, NY/ STEMteachersNYC

GENERAL STEM

Building REALationships in the classroom | Jodi Wilson, Pride Academy Charter School, East Orange NJ

Looking to Create: How Scaffolded Visuals Support Hands-on Learning in a Blended Model | Kiera Nieuwejaar and Meghan Eison, The League of Young Inventors, NY

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Day 2: Block C

CULTURALLY RESPONSIVE STEM

Harmonizing Culture and STEAM: Integrating Cultural Responsiveness to STEAM Curriculum | John Carlo Tulinao and Jasfer Familaran, Amberlea Elementary School, AZ

Using Culturally Responsive STEM and Social Justice Education To Build Student Critical Consciousness | Yvonne Thevenot, STEM Kids NYC

Boost English Development and STEM learning in first generation immigrants? | Melineh Zohrabian, Teach Communication through Science, Glendale CA

Providing equitable STEM to all students | Jessica Cordaro, Reacher Cyber Charter School, Bear Creek Tsp, PA

EcoRise – Student-Driven Learning through Eco-Audits | Zakhia Grant, EcoRise, Austin TX

GENERAL STEM

Virtual Professional Development for Elementary STEM Teachers in the Time of COVID-19 | Juliette Guarino Berg, The Chapin School NY, Kate Macaulay Hunter College Elementary School NY, Dieuwertje (DJ) Kast, USC Joint Educational Project STEM Programs, NY & CA/ STEMteachersNYC

Starting your Organization: Writing a mission statement, Establishing a board, Basics of Grant writing | Jennifer Herring, STEMteachersNYC

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Day 2: Block D

COLLABORATIVE COMMUNITY CLOSING