

Welcome!

NGCP National Webinar:

The Impact of STEM Role Models and Mentors



National Girls
Collaborative Project



The Impact of STEM Role Models and Mentors

January 26th, 2023



NGCP Vision

The vision of the National Girls Collaborative Project is to **support and create STEM experiences** that are as **diverse as the world we live in.**



Our Goals

Connect + Create + Collaborate

1

Build and sustain a network of advocates to provide equitable and inclusive STEM opportunities.

2

Catalyze equity in STEM from research to practice by providing actionable knowledge that transforms the STEM experience.

3

Increase our collective impact by strengthening organizational effectiveness and enhancing our fiscal sustainability.



NGCP Activities

- Network Partnerships
- IF/THEN Collection
- FabFems
- Youth Advisory Board
- State Leadership Teams



National Webinars

- Offered monthly on topics to help our networks grow and thrive
- Speakers include educators, researchers, authors, and diverse STEM professionals
- Sign up: <https://www.ngcproject.org/events-announcements>

"I have gotten more out of this than the dozens of other presentations I have attended this summer."

"I found this useful and enjoyable."

"I really like all the resources placed in the chat that I can go and flip through to find what is most helpful to my organization"



NGCP Newsletter

- National in-person and online events
- STEM resources for engaging girls and youth, professional development opportunities for educators, and opportunities for youth
- Research and reports related to STEM and equity, informal STEM education and learning
- NGCP updates and events, including webinars, knowledge products, and tools



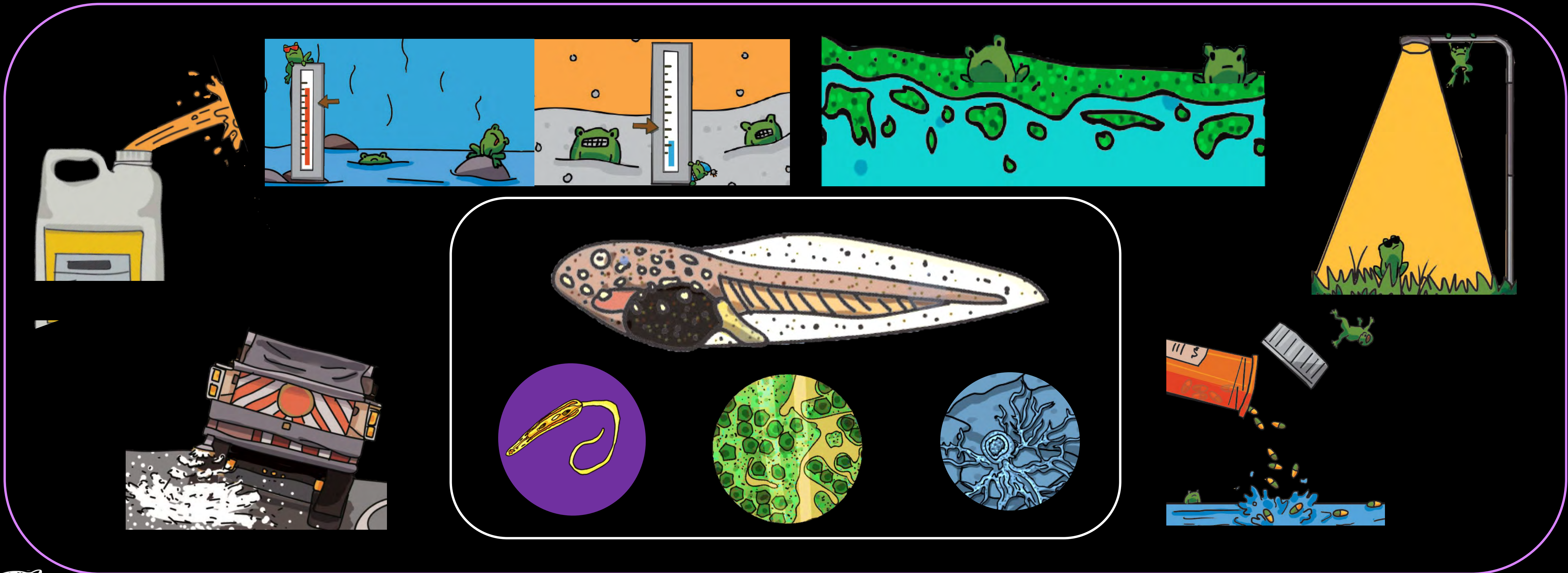


The Impact of STEM Role Models and Mentors

January 26th, 2023

POLLUTANTS, PARASITES, AND PEOPLE

DISEASE ECOLOGY IN THE FACE OF ENVIRONMENTAL CHANGE



JESSICA HUA

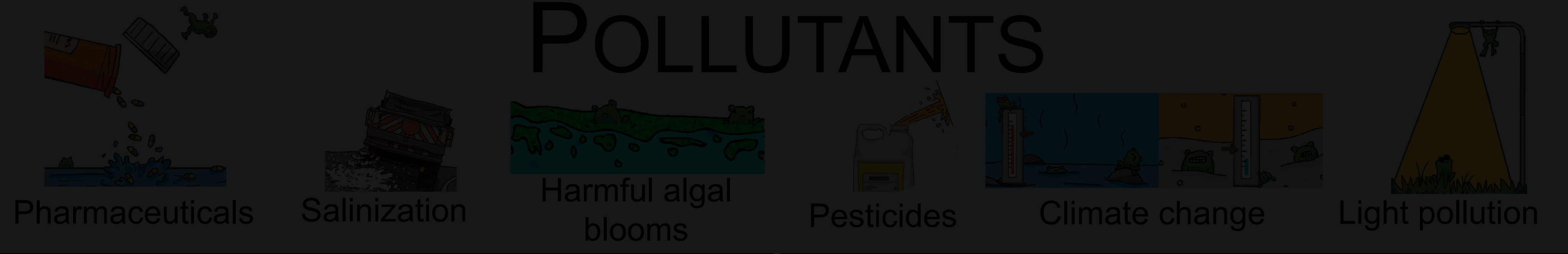


[jhua13](#)



[hua_lab_bu](#)

POLLUTANTS



ENVIRONMENT

Integrate **ecological complexity** into our understanding of disease outcome

HOST



Ability to defend against parasites

PARASITE



Ability to infect host



EVOLUTIONARY RESPONSES POLLUTANTS



"Super weeds"



Antibiotic resistance

POLLUTANTS



Pharmaceuticals



Salinization



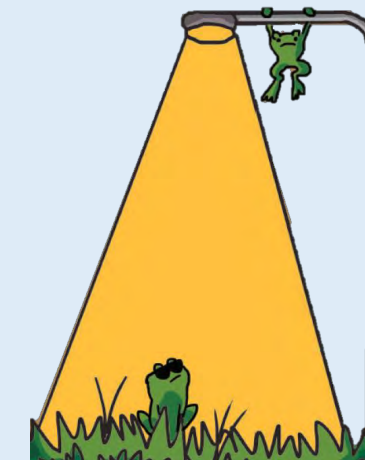
Harmful algal blooms



Pesticides



Climate change

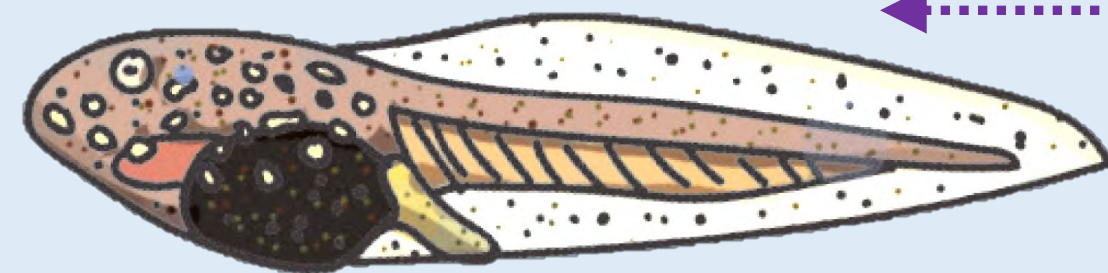


Light pollution

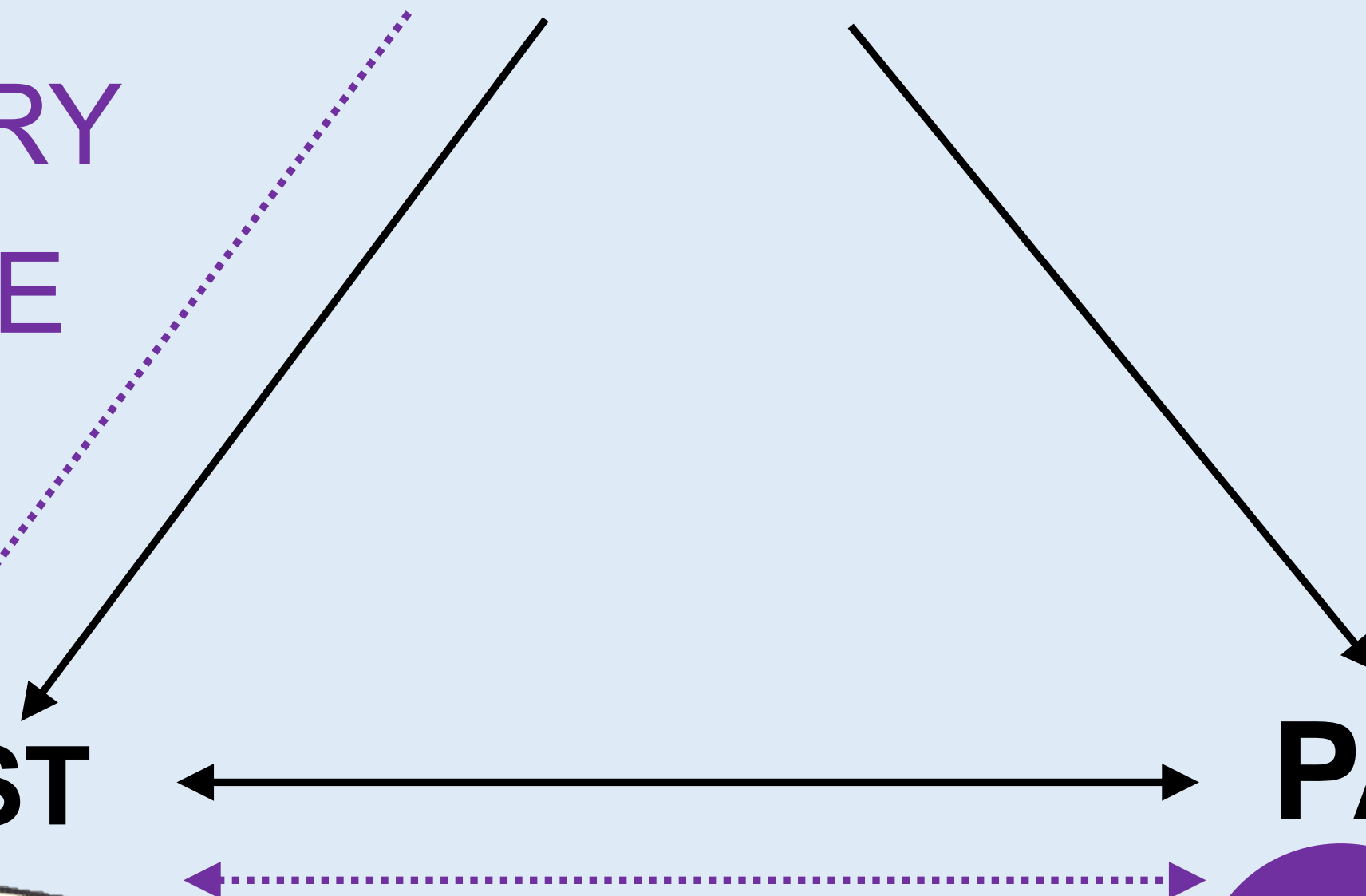
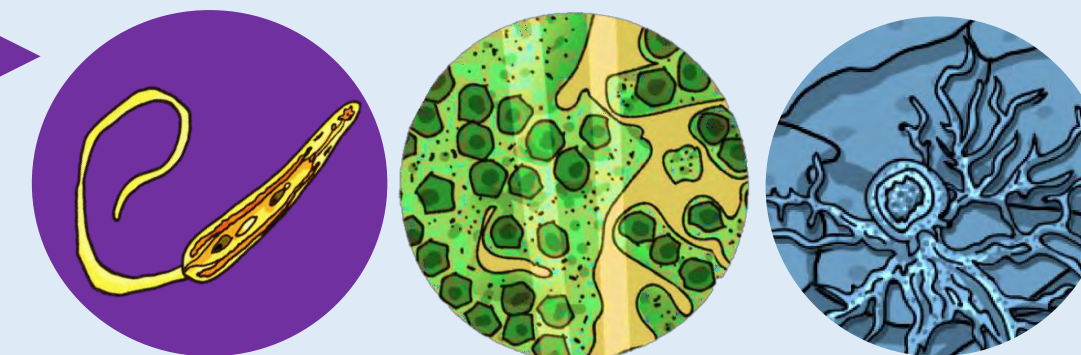
ENVIRONMENT

EVOLUTIONARY
PERSPECTIVE

HOST



PARASITES



Community Science



ART TO TRAIN COMMUNITY MEMBERS TO CONDUCT RESEARCH





POP

Discover
a career in
Prosthethics,
Orthotics, and
Pedorthics



What is the POP Profession?

- Change lives
- Challenge yourself
- Have fun!



Find out What It's Like

Orthotics

Orthotic care providers improve people's mobility by evaluating, making and fitting people with supportive braces.

- Device that supports a body part or joint
- Provide stability, support, positioning, and protection



Find out What It's Like

Prosthetics

Prosthetic care providers improve the quality of life for people with limb loss or limb difference.

- A device that replaces a body part
- Provide function, body balance, ease of use, and optimal cosmesis in order to restore self image, quality of life, and independence



POP Career Path

- Prosthetist/Orthotist
- Technician
- Assistant
- Fitter
- Pedorthist



My POP Story

Prosthetist and Orthotist Programs

- Alabama State University
- California State Dominguez Hills
- Loma Linda University
- University of Hartford
- Florida International University / International Institute of Orthotics & Prosthetics
- **Kennesaw State University**
- Northwestern University
- Eastern Michigan University
- Concordia University
- University of Pittsburgh
- Salus University
- Baylor College of Medicine
- University of Texas-Southwestern Medical Center
- University of Washington



**No Day is
the Same**

**Problem solve—
Collaborate with
others**



My POP Story

Adrienne W. Hill, MHA, CPO(L)
Certified and Licensed Prosthetist/Orthotist
Clinical Assistant Professor

I have been promoting this field for the last 10 years through community and educational outreach.

P.O.P.P.E.D – Promoting Orthotics and Prosthetics Positively Every Day was born from an idea to inform and educate people who have never heard of the Prosthetics and Orthotics field. For the last 5 years, she has been educating K-12 students both in and outside of the classroom. Through social media, P.O.P.P.E.D has made the profession more accessible to students, professionals and the others within the community. She met the students, professionals and the community where they are.





Contact



Adrienne W. Hill MHA, CPO(L)
ahill213@kennesaw.edu

Stacey Brown MSPO, BEPO
brown.stacey2020@gmail.com

Emma Stockwell, MSPO
estockwe@students.kennesaw.edu





20 YEARS OF TRANSFORMING STEM

Learn more at ngcproject.org

