

Community Oriented Digital Engagement Scholars

NGRREC Team



The National Great Rivers Research & Education Center Kaz Isibue, Makhia Logan, Sean Brown, Danahe Villasenor, Derrick Newsome, Nick Fowler, Adam Gardner

NGRREC Spring Symposium

What is NGRREC and what they do?

NGRREC: National Great Rivers Research & Education Center

Mission:

Study the ecology of the big rivers

Study functions of watersheds that feed rivers

Study connections communities have with rivers

Future Topics

- **G** Summer Initiatives
 - Wetlands Initiative
 - Plastics Cycle Initiative
 - Education and Outreach

Wetland Initiative at NGRREC

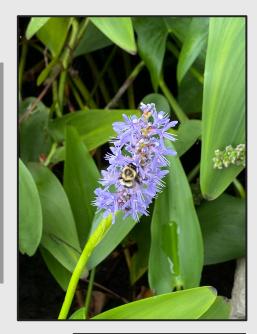
- What is a wetland?
 - \circ Definition
 - Important to local ecology
- Southern Illinois a hotspot for wetlands in the Mississippi River Basin





Southern Illinois Wetlands

Why are wetlands important ecosystems?



Ecological hotbed: Plants and Wildlife







What research is NGRREC doing as part of the Wetlands Initiative?



Why is it needed?





What are Microplastics?

What is the importance of microplastic research?

- Microplastic research is lacking, as the issue has only come to public awareness in recent years
- Effects of microplastics on the human body are unknown

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- Whether microplastics are affecting the ecosystem is also unknown
- By researching these plastics we are able to bring the results to policy makers for real change

What is the Microplastics Initiative at NGRREC?

- **Emerging Contaminants Initiative**
 - Mississippi River Basin Plastic Pollution (MRBPP) Collaborative
- **G** 5 Main Themes

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- 1. Extent of Plastic Pollution
- 2. Ecosystems and Biodiversity
- 3. Human Dimension
- 4. Education and Outreach
- 5. Policy



What research is NGRREC doing to understand microplastics?





Education Program

- What does the education program look like at NGRREC?
- What is the educational mission?
- What are some programs that the education initiative has to offer?



Outreach

- What is Outreach at NGRREC?
- What is Riverwatch?





Photos from our Education/Outreach Lesson













Photo: Dr. Paige Mettler-Cherry

Looking Forward —

Summer Goals

- Understanding NGRREC
 - What does that mean?
- Broad range of experiences
 - Participate in field research
 - Shadow summer camps, teacher workshops
 - Observe summer science convenings
 - Develop a digital library of summer activities and experiences



Looking Forward —

Next Steps

- Identify and develop digital projects
 - Community Science apps
 - Websites
 - Self guided tour for the roof native garden
- Outreach with high schools
 - Community service programs
 - Introduce to career opportunities in natural resources
 - Volunteer opportunities for students

Thank You!



With Love from the NGRREC Team

