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Energizing Earth Science using Experts in the Field

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Enriching Earth Science

Getting help from the experts

Dr. DeEtta Andersen

Science Teacher
Center Point Urbana High School

Long time teacher

First year ever with Earth Science!

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**How to teach any
science when you have
limited resources!**

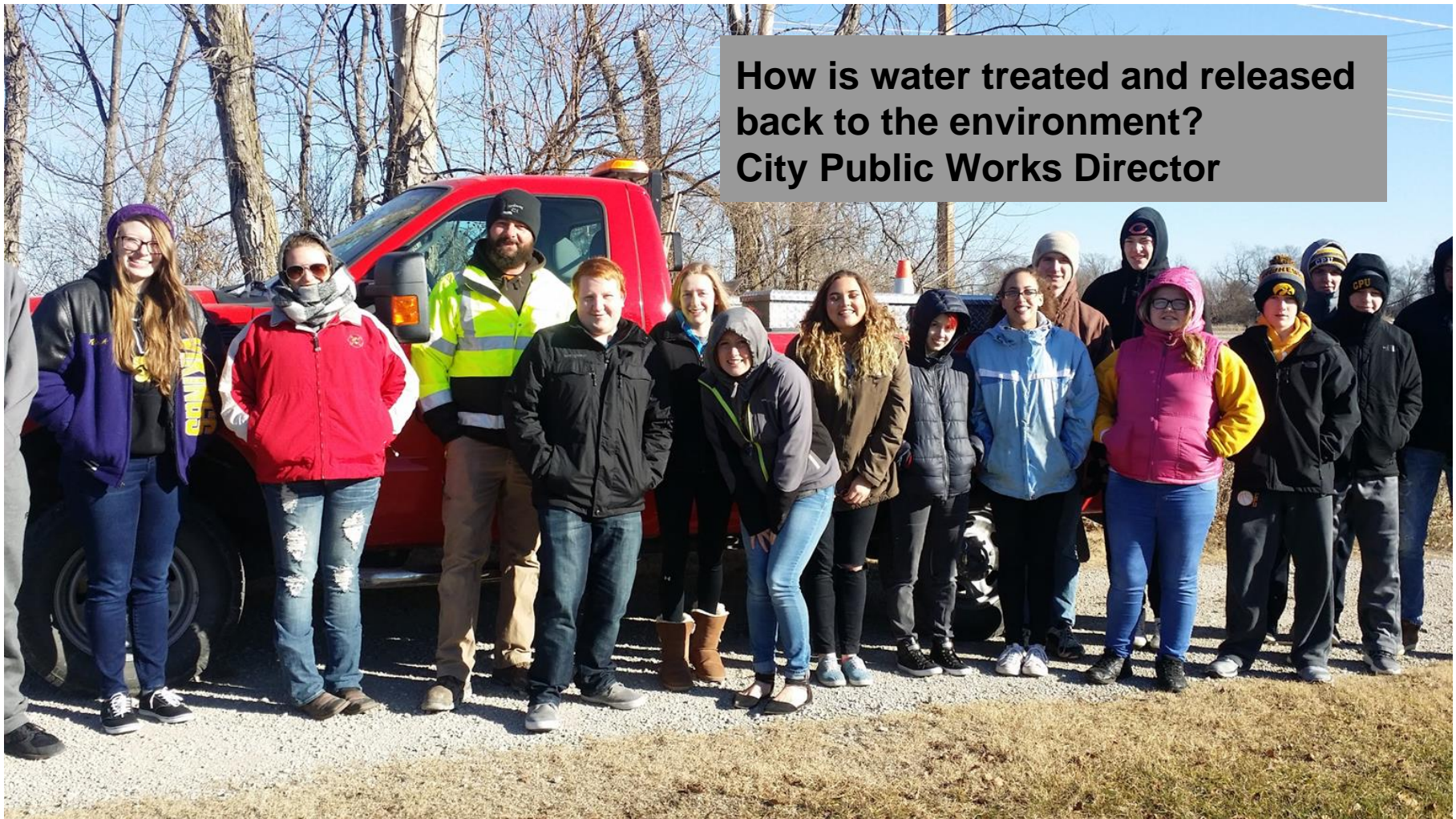
Or knowledge!!

Who can help you?

Brainstorm a list...

Friends, retired teachers, rock clubs, neighbors, city workers....

**How is water treated and released
back to the environment?
City Public Works Director**



How do you get in touch with people?

Call and beg.

Meet and ask.

Let others

Farm

Do not be afraid to ask!

Iowa State Extension

All state universities

Department of Natural Resources



**Ben Drenth, United States
Geological Survey**

**How do you do geomagnetic
mapping of the earth?**

**What does this tell us about what
is underground?**



**NASA Scientist from Jet
Propulsion Lab
Varoujan Gorjian**

Pasadena, California

**Skyping in from national
astronomy conference in
Washington, D.C.**

His research

Dark Matter

Anything else they wanted!



Farm Chat

Schedule with Farm Bureau or Iowa State Extension

Select a topic, they schedule the speaker

What erosion control practices do you use in the field?

How do you manage the N, P, and K in your field?



Managing manure runoff into streams

Large scale hog confinement

How do beef producers use chemistry?





University of Iowa

How do you identify unknown rock samples for minerals?

How do you connect speakers with students?

From easy to hard....

Skype

Google Chat

In person

Field trip

STEM festival



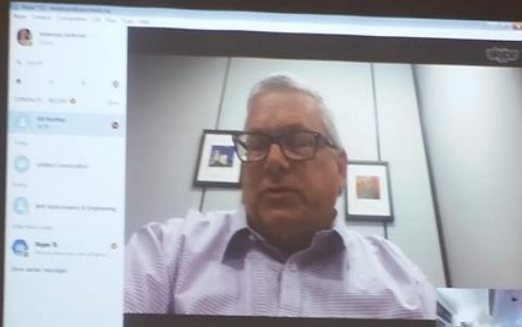
**Visit to local rock quarry
Quarry Manager, John Tuthill**

What is the difference between a rock and mineral?

What are fossils?

Retired teacher, Iowa butterfly expert, and local rock expert, Dennis Schlicht





Secretary of Agriculture, Bill Northey

**What is the vision for managing Iowa's waters?
What are the goals for Iowa's Nutrient
Management System?**

Planning and Scheduling

Be flexible

Be open to new ideas

Verify via multiple methods

Limit their time as appropriate

Be prepared with questions from students

Teach your students to say “thank you” out loud

Write a thank you note

**I only knew two of these
people before I started
teaching Earth Science
this fall!**

