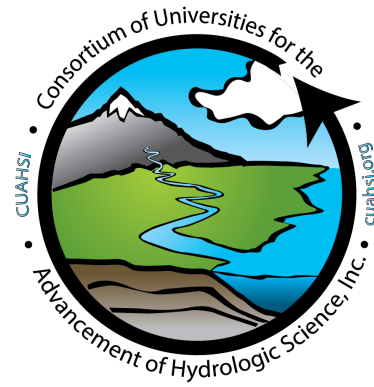


How CUAHSI helps me with teaching and research

Anne Jefferson

Department of Geology, Kent State University

CUAHSI Board of Directors



About me & my university

Geology: 50-130 undergraduates,
20 MS, 10 PhD students.

Also Geography, Env. Studies,
Conservation Bio majors.

My group: 2 PhDs, 1 MS,
1 undergrad

Focus: Urban hydrology
& fluvial geomorphology



Kent State has 27,000+ students

CUAHSI tools make data-driven education doable



HOME MY RESOURCES DISCOVER COLLABORATE APPS HELP

Create



Discover *Public resources shared with the community*



HOME MY RESOURCES DISCOVER COLLABORATE APPS HELP

Educational Resources for Hydrology & Water Resources

Temporal Coverage Filter

Type

Title

First Author

Date Created

Last Modified

Start Date

End Date

+ Author

+ Owner

- Subject

cbf

Data and Model Driven
Hydrology Education



Isotope Hydrograph Separation

Isotope Hydrograph Separation

Anne Jefferson, Kent State University [Author Profile](#)

► **This activity is part of the On the Cutting Edge Exemplary Teaching Activities collection**

Geoinformatics Modules for Teaching Hydrology

List of Units

List of Steps

Graduate Level: CUAHSI Virtual University

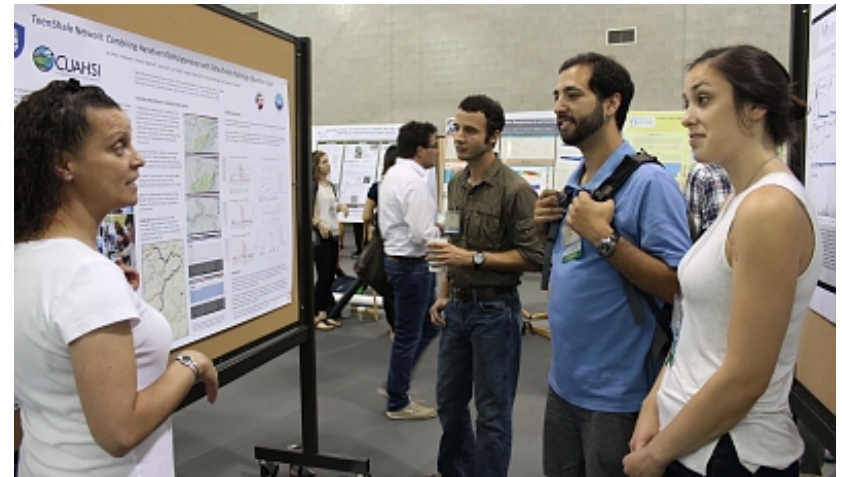
- Students choose modules to match their interest
- Students can go beyond scope of my campus
- Students learn from world experts & each other
- Course is 3 cr, but I teach 1 month
- CUAHSI supports enrollment, LMS, & web conferencing

Sept 2-30	Oct 2-29	Nov 4-Dec 3
Ecohydrology of Groundwater Dependent Ecosystems	Stream Solute Tracers: What, Why & How?	Microwave Radar Remote Sensing: Theory and Applications
	Advances in Drone-based Remote Sensing for Hydrologic Applications	Digital Water: Emerging Data Science and Research Software
Geographic Information Systems in Water Resources	Urban and Stormwater Hydrology	
	Introduction to Open Channel Modeling	Modeling Watershed Dynamics Using Landlab

More education resources I've used

applicable to undergrad & grad

- Hundreds of recorded cyberseminars
- Guest lecture database
- Short Courses & Workshops
- Biennial Colloquium
- Travel grants & awards



~ VOICES ~
~ OF THE ~
~ FUTURE ~
~ AWARD ~

CUAHSI supports my research

- Supporting students enriches my research
- CUAHSI has templates for data management plans
- Easy & flexible data publication on HydroShare
- Metadata standards for time series data
- Training on their tools
- Support broader impacts



AGU session: ED009 - Online Hydrology Education: Lessons Learned from Designed and Impromptu Remote Instruction eLightning

- Tuesday December 8, 10-11 am ET(?)
- 18 fabulous presentations



NSF RAPID 2028737: Collaborative Research: Increased access to infrastructure for distance education in hydrologic science



- Interactive hydrology lessons & R Shiny apps:
<https://openecodatalab.github.io/Hydrology-Online/>



Contact me: ajeffer9@kent.edu
@highlyanne (Twitter)

