

TMACOG's 20th Annual Student Watershed Watch





Student Watershed Watch Summit
University of Toledo Nitschke Auditorium
November 20, 2009

- 9:00 - 9:30 a.m. REGISTRATION, Nitschke Auditorium (display board set-up)
- 9:30 – 9:35 a.m. WELCOME, Nitschke Auditorium
John Agostinelli, Interim Coordinator, Engineering Pre-College Programs
- 9:35 – 9:40 a.m. RECOGNITION OF SPONSORS, Keynote Introduction
Matt Horvat, Maumee River Coordinator, TMACOG
- 9:40 – 10:00 a.m. Todd Crail, PhD Candidate, Department of Environmental Sciences, University of Toledo *The Secret Sex Lives of Unionid Mussels*

Student Watershed Presentations

- Host, Lou Hebert, Senior Reporter, WNWO NBC24
- 10:00-10:10 a.m. NORTH MAUMEE BAY TRIBUTARIES
(Silver and Shantee Creeks) Watershed Presentations
- 10:10-10:45 a.m. OTTAWA RIVER Watershed Presentations
- 10:45-11:00 a.m. SWAN CREEK Watershed Presentations
- 11:00-11:20 a.m. MAUMEE RIVER and EASTERN MAUMEE BAY TRIBUTARIES
Watershed Presentations
- 11:20-12:10 p.m. LUNCH and DISPLAY BOARD JUDGING Lobby/hallway

Workshop Sessions

- 12:15-1:00 p.m. WORKSHOP SESSIONS, see session descriptions

In Conclusion

- 1:05-1:20 p.m. REVIEW of DAY and DISPLAY/PRESENTATION AWARDS
Nitschke Auditorium

2009 Student Workshop Sessions

(Palmer Hall, Room 2700)

Big, Slimy, and Endangered: Conservation Efforts for Hellbenders in Ohio

Gregory Lipps

Herpetologist/Conservation Biologist

At up to 2' long, the hellbender is North America's largest salamander. Hellbenders never leave the water, and are therefore directly affected by changes in water quality. In this session, we will discuss the status of hellbender populations in Ohio and efforts to conserve amphibians throughout the state.

(Nitschke Auditorium)

The Secret Sex Lives of Unionid Mussels – Behind Closed Doors

Todd Crail

PhD Candidate

Department of Environmental Sciences, University of Toledo

The story continues. Come witness some of Nature's most fascinating adaptations for reproduction in some of its most simple organisms, the Unionid mussel fauna of North America. We will discuss their basic strategy for species dispersal, how the mussels implement their specialized strategies, and how human influences have upset this balance, causing these mussels to become one of the most imperiled families of animals in the world.

(Nitschke Hall, Room 1027)

Am I really drinking THAT? Cleaning up Lake Erie

Cyndee Gruden

Environmental Engineer, Associate Professor

University of Toledo

Lake Erie is the drinking water source for more than 13 million people. The water quality of Lake Erie is negatively impacted by humans due to industrial activities, urban runoff, and agricultural activities. In this session, we will discuss current water quality issues in Lake Erie and the methods used to clean the water so that we can safely drink it.

(Nitschke Hall, Room 1052)

I can be there in 10 minutes! U.S. EPA Emergency Response Team

Jon Gulch

On-Scene Coordinator

U.S. EPA, Emergency Response Branch

This presentation will discuss the role and responsibility of the U.S. EPA during emergency and Superfund responses to chemical and oil spills throughout the Great Lakes. This will be demonstrated through an interactive presentation and hands-on activities, such as: "Dressing out" in PPE (Moon Suits) and responding to an "Oil Spill" in the classroom.

If you are interested in science and getting dirty (and maybe sweaty), this presentation is for you.

(Palmer Hall, Room 2650)

Pimp Your Stream! Cool Things to Improve Your Neighborhood Streams (& the Planet Too)

Dave Derrick

Research Hydraulic Engineer, U. S. Army Corps of Engineers

Many streams throughout the nation are in such bad shape that they do not even function as streams! This presentation will show some whiz-bang methods to improve both aquatic and riparian habitat, and improve the stream so that it can be enjoyed by all.



20th Annual Student Watershed Watch Sponsored By:



With Additional Support from the Following:



This product or publication was financed in part through a grant from the Ohio Environmental Protection Agency and [if applicable] the United States Environmental Protection Agency, with funds from the State of Ohio [and/or as applicable] Section 604b of the Clean Water Act. The contents and views, including any opinions, findings, or conclusions or recommendations, contained in this product or publication are those of the authors and have not been subject to any [if applicable] U.S. EPA or Ohio EPA peer or administrative review and may not necessarily reflect the views of either Agency, and no official endorsement should be inferred.

Student Watershed Watch 2009

The Student Watershed Watch is a program of guided discovery that nurtures interest in the environment and mentors the next generation of environmental stewards. Since it began in 1989, more than 20,000 students have been part of this community-wide water quality testing program.

Each fall teachers take their students to area waterways to collect samples and test water quality by measuring dissolved oxygen, acidity, turbidity, and other benchmarks. At the Student Summit, classrooms come together to present their findings, attend workshops on environmental issues, and meet with professionals working in environmental sciences.

The Student Watershed Watch is made possible through the dedication of teachers who invest their time in teacher training, through the speakers at the Summit who take time to mentor students, and through the sponsors who provide TMACOG with the financial support that makes the program possible.

www.tmacog.org