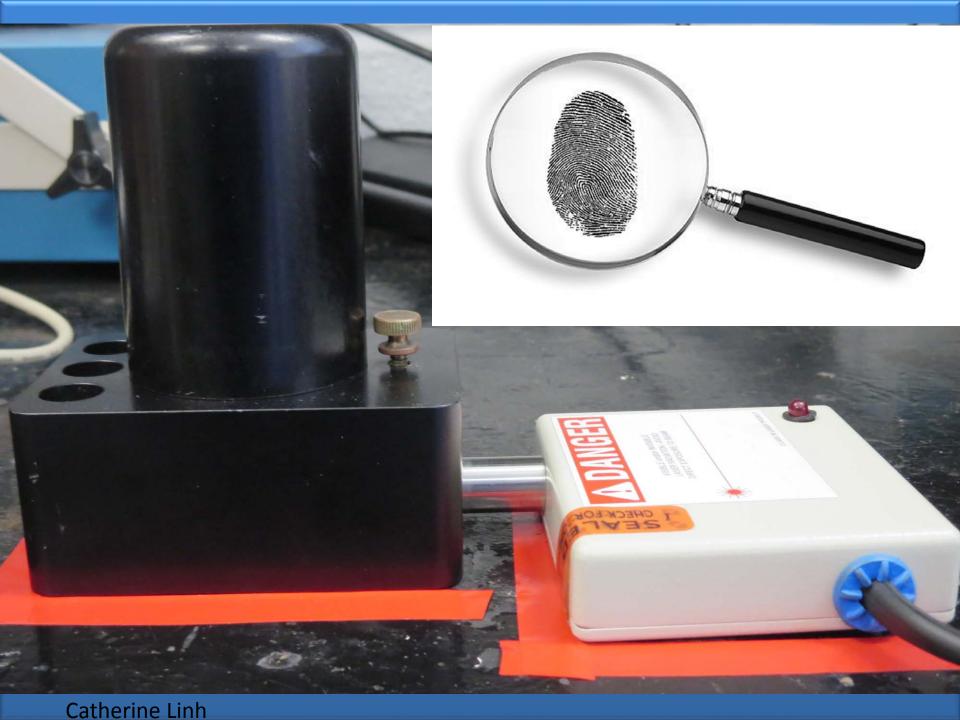


Undergraduate Research Symposium

Saint Michael's College Colchester, VT

August 11, 2015





Examining Stakeholders' Decisions Related to Water Quality:

Are we blinded by the status quo?



SOCIAL ECOLOGICAL SIMULATION OF FARMER'S DECISION TO FERTILIZE FIELD BASED ON WEATHER UNCERTAINTY

Arkia Wynn

Water Quality of Brandywine Creek and Urban Runoff Sources in Wilmington, Delaware

Shawn DelPercio



Managing Urban Runoff Kaitlynn Ritchie





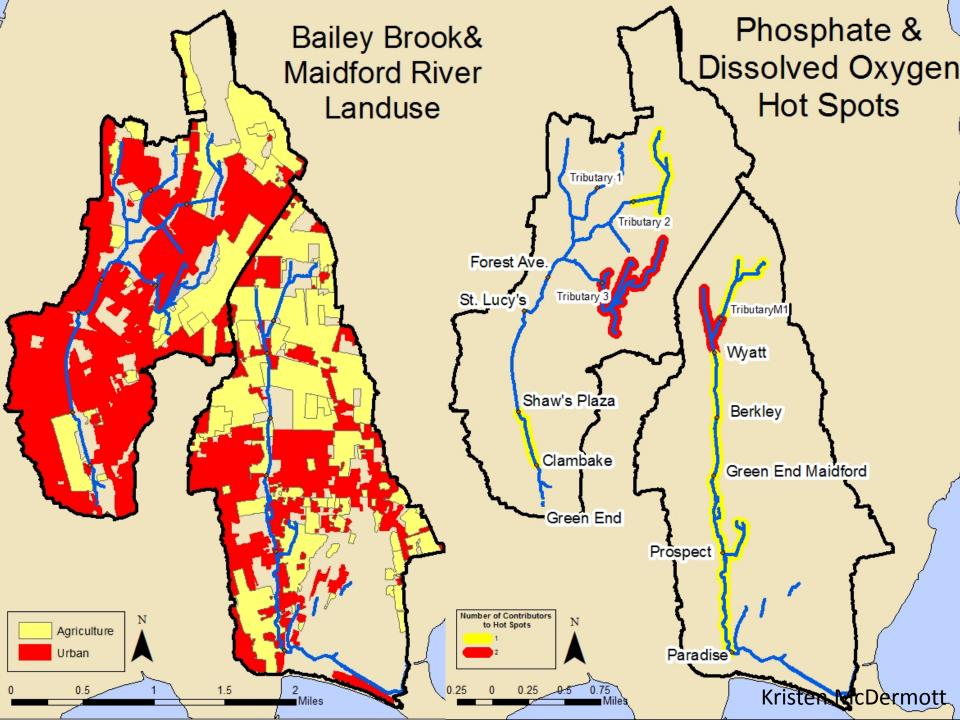
Effects of stream DOC as precursors to dangerous disinfectant by-products in drinking water supplies

Nicole Stevens-Murphy





Regional Variation in American Beech Leaf Leachate Kathryn Wheeler University of Delaware



Blue-Green Algae Blooms

- \rightarrow Algae blooms
 - \rightarrow Organic matter
 - \rightarrow Watersheds
 - → Particulate organic matter (POM)
 - \rightarrow Storms
 - → Dissolved organic matter (DOM)
 - \rightarrow Algae blooms
 - \rightarrow POM quantity & quality
 - \rightarrow Importance

Caraline Canning

Picture Source: Zwick, J. (2009, September 11). In Chesapeake Bay, It's The EPA Vs. Federalism. Retrieved August 10, 2015.

Using Rhodamine Dye to Quantify Incoming Solar Radiation Along Streams with Heterogeneous Canopy Cover



Kristen McCarthy

Behavioral Responses to Arsenic and Lead Exposure: A Field Study

Daniel Awokuse

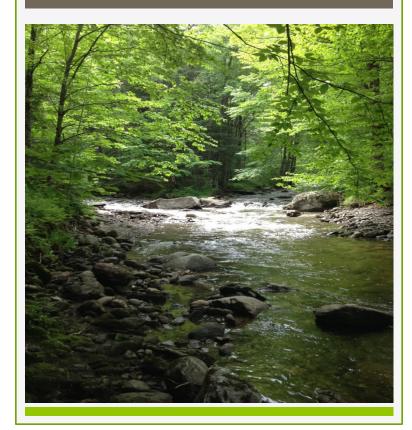
Dr. Kent Messer, Dr. Maik Kecinkski, Walker Jones

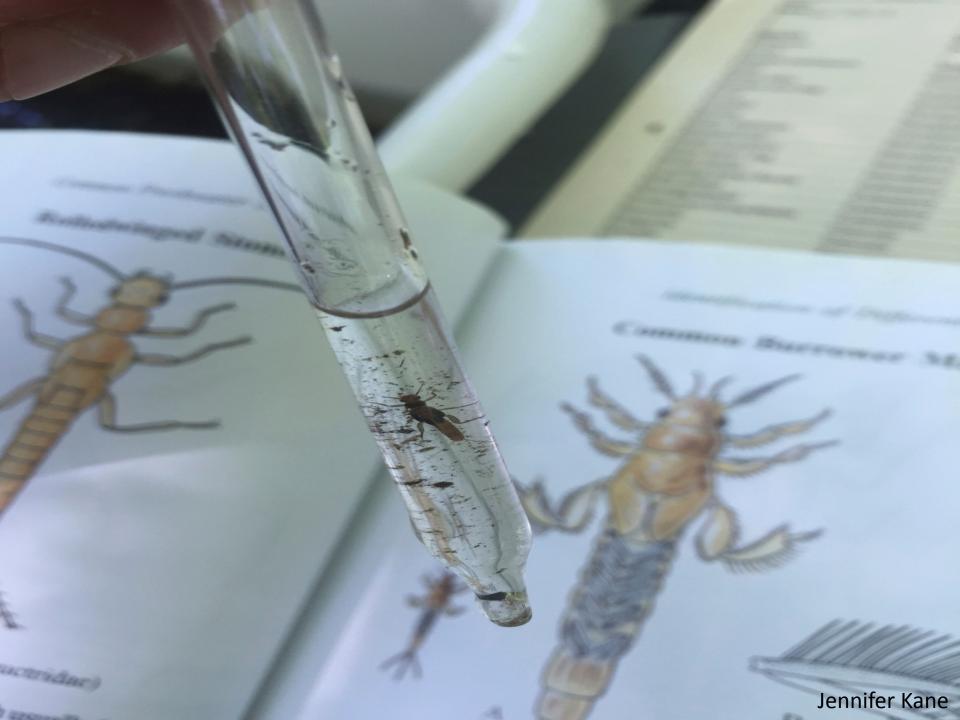
-**Problem**: Pollution runs into the lake from the watershed above

- **Project**: Create a model that predicts BDOC from sensor readings.

- **Benefits of project**: Gives more descriptive data on pollution in the lake. Modeling BDOC using senor data

by Harrison Miller





Water Quality Monitoring using an Autonomous Surface Vehicle



Scott Hara

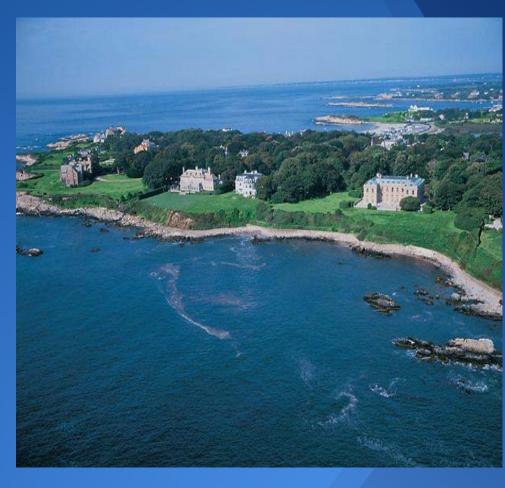
Resident Decision Making on Lawn Care Practices

How you manage your lawn can affect the watershed!

Using an evaluation survey as a tool for this project

What Incentives can be offered?

- Money?
- Warm glow?
- Beating your neighbor?







Using Experimental Economics to understand decision-making processes in relation to fertilizer use, revenue, and vegetative







Noah El-Naboulsi