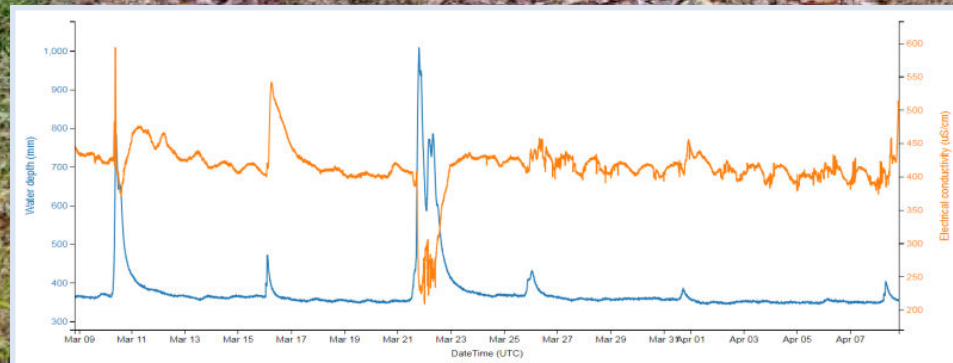
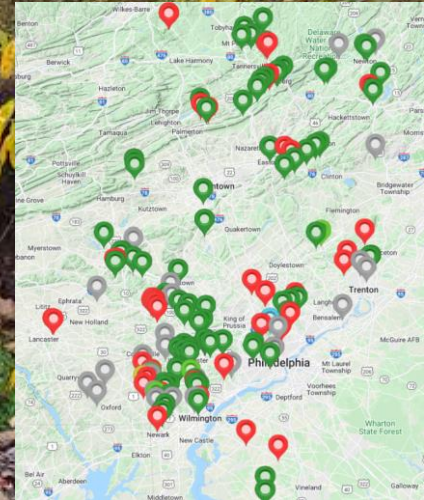


WELCOME!

EnviroDIY and monitoring in the DRB monthly meeting

Online, Thursday, November, 16, 2023, 2:30-3:30p



STROUD
WATER RESEARCH CENTER

Today's Agenda

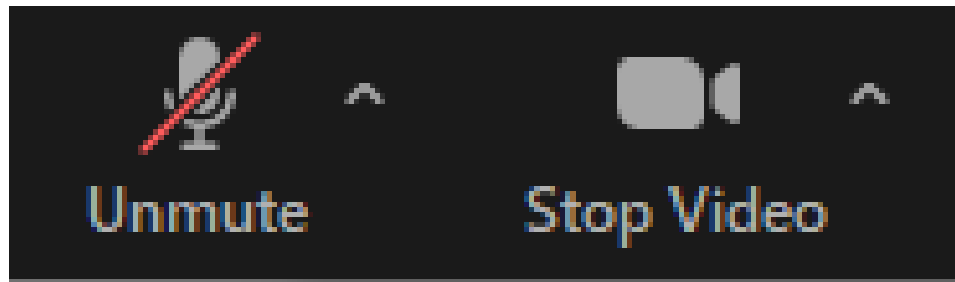
1. Introduction
2. Stroud Updates
3. Presentation – **Student presentations**
 - Jay Byrd (Student/Intern, Heinz NWR)
 - Elisabeth Ruschmann (Student, Princeton Univ)
 - Saranya Anantapantula (Student, Spring-Ford High School)
 - Toby Broun (Student, Saucon Creek Watershed Association)
4. Discussion
5. Conclusion



Zoom Orientation



***Meeting is being recorded**



***Please mute when not speaking to the group**

These Monthly Meetings

Recordings available at: <https://wikiwatershed.org/drwi/>

YouTube

Search

WELCOME!
Monthly EnviroDIY-DRWI User Group Meeting
Online, Thursday February 17, 2021, 2:30-3:30p

EnviroDIY

Monitor My Watershed®

STROUD

February 2022 EnviroDIY-DRWI Monthly Meeting

24 views • Feb 17, 2022

1 DISLIKE SHARE SAVE ...

Stroud Water Research Center Videos
571 subscribers

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These Monthly Meetings

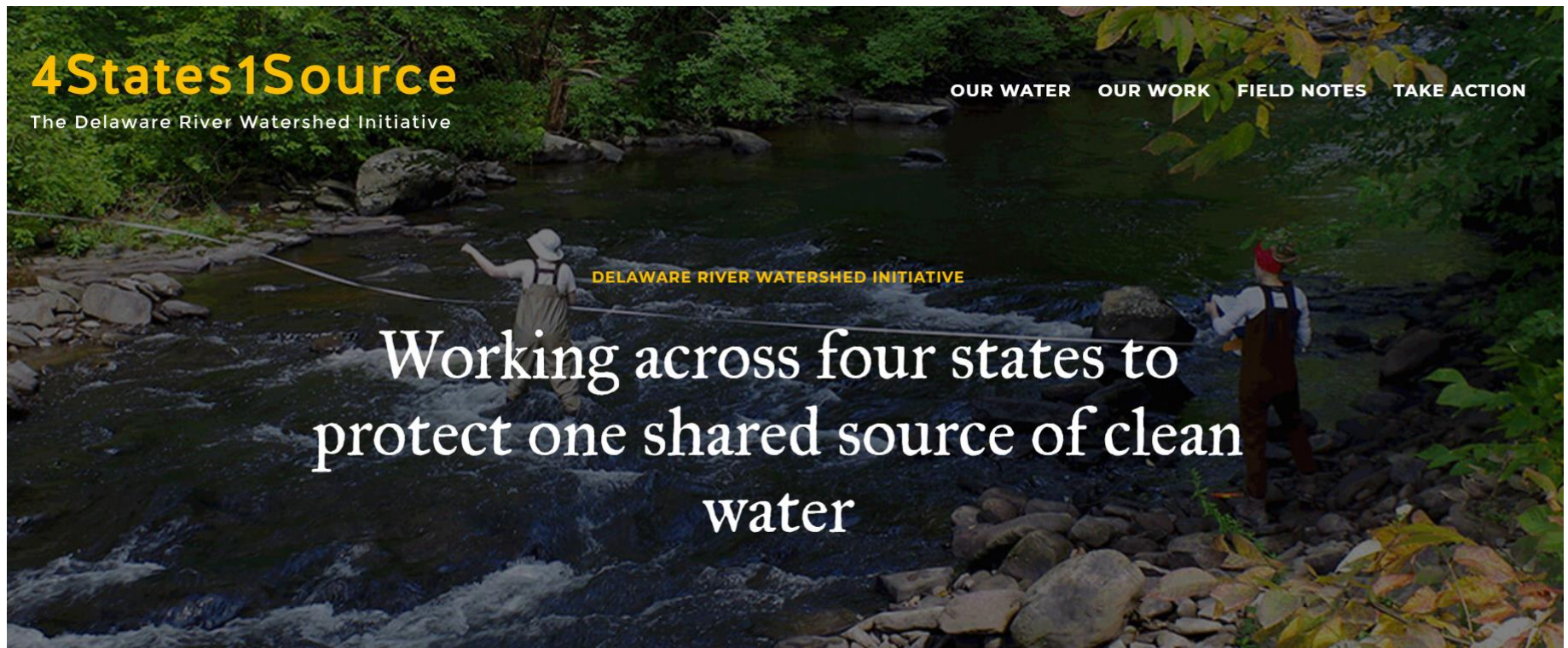
- Every third Thursday of the month
- 2:30-3:30p
- Zoom link will remain the same:
<https://us02web.zoom.us/j/81881801310?pwd=eUFmbXZLbmRibVcxa1dtNVhzRmNvZz09>
- Reminder email one week prior to each month's meeting
 - All are welcome, please share
 - **And let us know if others should be added**

REMINDER

- Attendees include:
 - Groups working in Delaware River Watershed Initiative (DRWI)
 - Groups working in Delaware River Basin (DRB) but not DRWI
 - Folks from outside the DRB
- Stroud Center support via DRWI and C-SAW

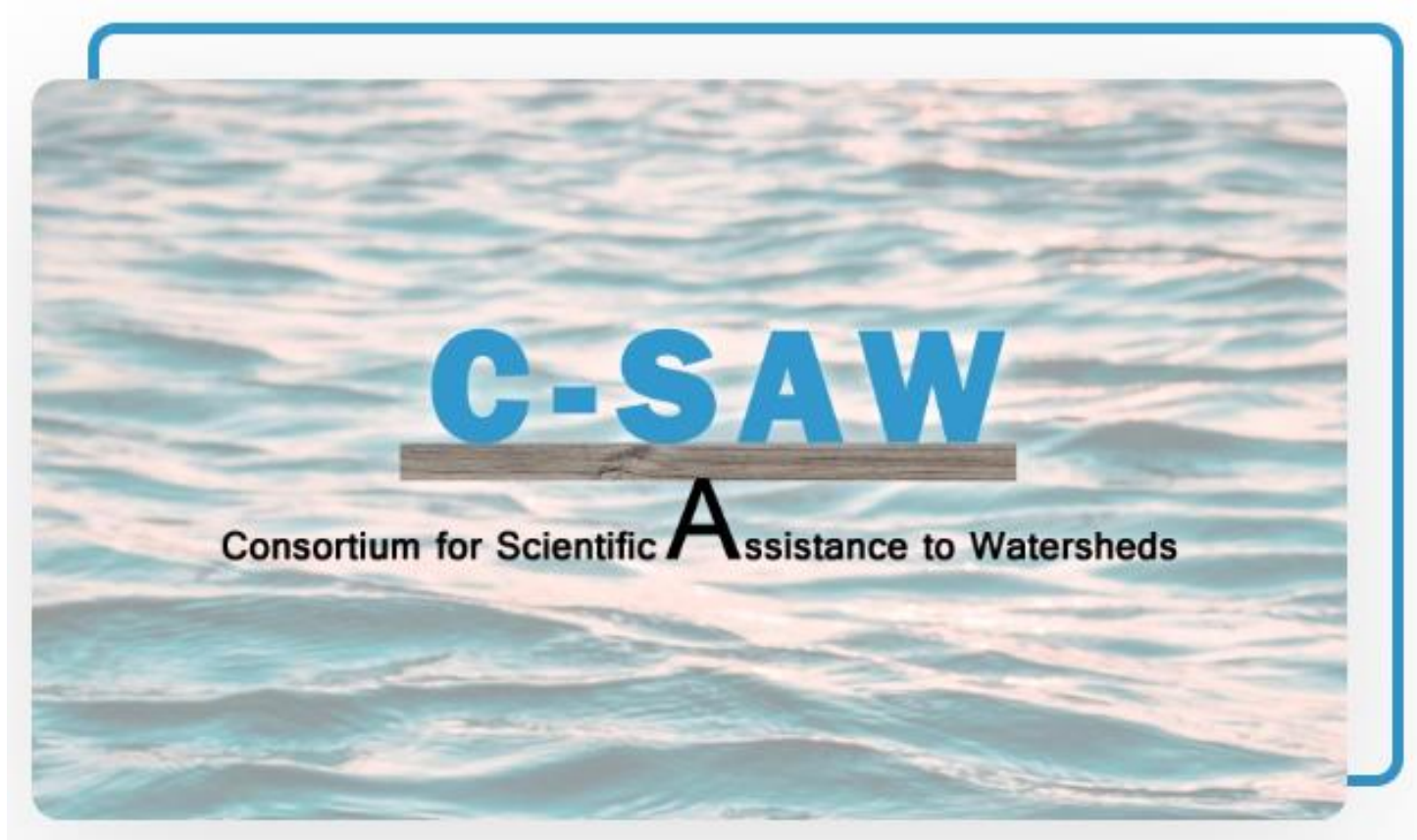
Delaware River Watershed Initiative (DRWI)

<https://4states1source.org/>



C-SAW

<https://www.c-saw.info/>



Goals for these monthly meetings

- Time to check-in, ask questions, report issues, network, etc.
- Updates from the Stroud Center
- Presentations
 - Science
 - Monitoring
 - Watershed management

**All of this to support gathering good data and using it purposefully*

Stroud Center project personnel

Stroud Center team:

David Bressler



Community science
facilitator

Christa Reeves



Northern DRB technician
and collaborator

Shannon Hicks



Research Engineer,
Mayfly and EnviroDIY
Inventor/Designer

Stroud Center project personnel

Master Watershed Steward Facilitators:

Carol Armstrong



George Seeds



Master Watershed
Steward Program



PennState Extension

Stroud Center project personnel

Stroud Center DRWI Leads:

Dr. John Jackson



Senior Research Scientist

Matt Ehrhart



Director of Watershed Restoration

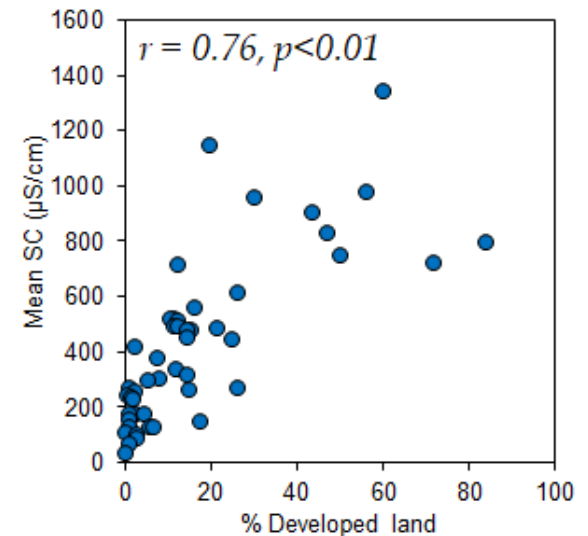
Dr. David Arscott



Executive Director, President
Research Scientist

Stroud Center Perspective – EnviroDIY in the DRB

- Primary Goal
 - Support Station owners, managers, and volunteers
 - Use stations for local purposes
- Secondary Goal
 - Analyze basin-wide data set
 - Develop tools to characterize and contextualize watersheds

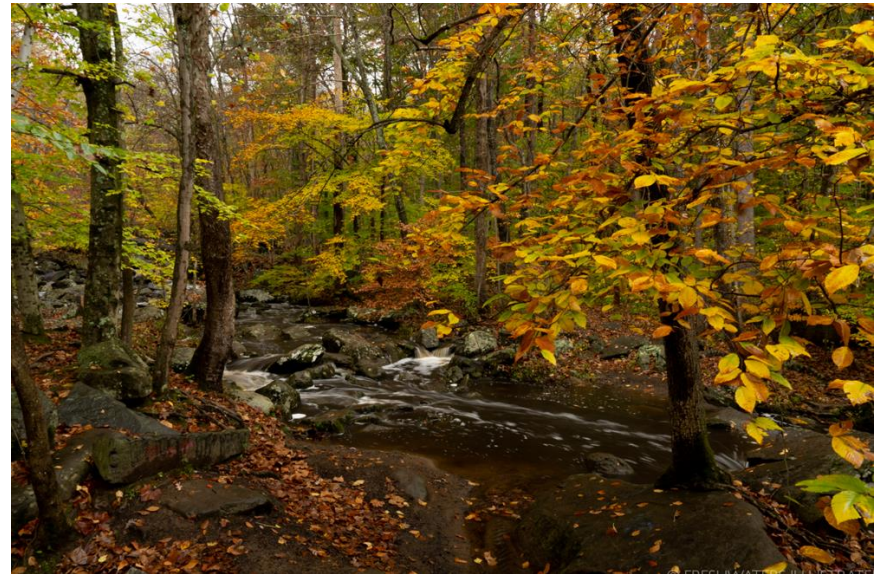


Updates

- Updates from the Stroud Center on EnviroDIY, science and monitoring, communications, etc.

Fall EnviroDIY tech

- Battery power may be an issue for another month or so
 - Less light, still leaves on trees
 - Once leaves fall low battery should resolve in most cases
 - Can cycle batteries in the meantime
 - Talk to Stroud if you need to purchase a battery
- Turbidity sensors may start fouling when leaves fall



Freshwaters Illustrated

Support on Snapshots

- Stroud Center support on synoptic sampling events (aka snapshots and blitzes)
 - Salt (chloride and conductivity)
 - ~~Water temperature~~
- **Please be in touch if you would like support in doing this type of monitoring*

If you want, send your photos and stories



Email or Text to:

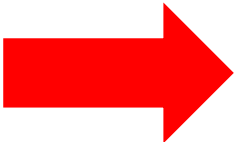
- Diane Huskinson (dhuskinson@stroudcenter.org; 717-383-1179)
- Dave Bressler (dbressler@stroudcenter.org; 410-456-1071)

EnviroDIY Service Request Form

<https://wikiwatershed.org/drwi/>

EnviroDIY Monitoring Station Service Requests

Use this form to report technical issues that require assistance from the Stroud Center team.



Submit a Service Request

EnviroDIY Field Visit Data Form entry

<https://wikiwatershed.org/drwi/>

EnviroDIY Field Visit Data



Enter Field Visit Data

- [View field visit data](#)
- [View older data \(7/18/2017 to 7/24/2018\)](#)

EnviroDIY Field Visit Data Sheets (Printable)

- [EnviroDIY Field Visit Data sheet \(blank\)](#)
- [EnviroDIY Field Visit Data sheet tutorial](#)

EnviroDIY Field Visit Data Form entry

<https://wikiwatershed.org/drwi/>

- Fill out any time a station is visited



EnviroDIY Field Visit Data

Enter all data online: wikiwatershed.org/drwi/; password: drwi

Name(s):			
Site ID:	LoggerID:		
Stream Name:	Location:		
GPS (Lat/Long):	Date: Arrival Time: AM/PM? *EST/EDT?		
Photos? Yes/No	*EST=Eastern Standard Time; EDT=Eastern Daylight Time (Daylight Savings)		
Precipitation last 24 Hours? Yes/No Amount:	Water Clarity (Clear, Cloudy, Muddy):		
General Notes/ Photo Descriptions:			


SENSOR CLEANING (Recommended frequency: weekly or biweekly; monthly if only CTD sensor)

*Cleaned Sensors? Yes/No If Yes, exact time: AM/PM? EST/EDT? *Clean >5 min. before grab sampling

A screenshot of the EnviroDIY Field Visit Data form. The header features the EnviroDIY logo and a photo of a circuit board. The form includes fields for Name(s), Site ID, LoggerID, Location, Date, Arrival Time, AM/PM, EST/EDT, Photos, Precipitation, Water Clarity, General Notes, and Sensor Cleaning. It also has a section for Email with a "Switch account" link and a "Required" label. The form is titled "EnviroDIY Field Visit Data" and includes instructions for users who have trouble with the form.

EnviroDIY and monitoring resources


- Guidance materials - <https://wikiwatershed.org/drwi/>

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WikiWatershed is an initiative of [Stroud™ Water Research Center](#). The Stroud Center seeks to advance knowledge and stewardship of freshwater systems through global research, education, and watershed restoration.

Home » Delaware River Watershed Initiative Resources

Delaware River Watershed Initiative Resources

The Delaware River Watershed Initiative (DRWI) is a cross-cutting collaboration that is working to [conserve and restore](#) the streams that supply drinking water to 15 million people in New York, New Jersey, Pennsylvania, and Delaware. In direct support of this initiative, [Stroud Water Research Center](#) is facilitating efforts to improve the capacity of watershed groups to conduct scientific investigations associated with DRWI projects, as well as to build general knowledge on the ecology of their watersheds and the broader basin.

These resources were created by the Stroud Center to assist DRWI efforts *specifically focused on stream monitoring using [EnviroDIY Monitoring Stations](#)*. They may also be of interest to community scientists and watershed groups working in other locations.

Shortcuts to General Resources

- [EnviroDIY Field Visit Data](#)
- [EnviroDIY Monitoring Station Help Resources](#)
- [Salt Monitoring Resources](#)
- [Data and Data Visualization Resources](#)

Shortcuts to Meetings, Workshops, Conferences

- [Monthly EnviroDIY-DRWI User Group Meetings](#)
- [User Support Workshops and Trainings](#)
- [Conference Presentations](#)
- [Watershed Ecology Workshops](#)

Next month's presentation (Dec 14)

- Dec 14 – End of year summary and planning for 2024, Dave Bressler (Stroud)
 - Other things for Dec 14 ???
 - Five minute updates from groups/teams?
 - Tech year-in-review from Shannon?
 - Suggestions? – what would you like to hear about or contribute?

Local Policy/Practice Workgroup

- **Current leadership:**

- Ian Brastow, Lopatcong Creek Initiative/New Jersey Highlands Coalition (NJ)
- Dave Manning, PA Master Watershed Steward and Schuylkill Water Steward with Green Valleys Watershed Association (PA)
- Steve Tricarico, Tulpehocken Creek Watershed Association, member Bern Township planning committee (PA)
- Christa Reeves, Musconetcong Watershed Association (NJ)
- Alex Jackson, Brodhead Watershed Association (PA)
- Joe Debes, PA Master Watershed Steward and Stroud Center volunteer (PA)
- Carol Armstrong, PA Master Watershed Steward (PA)
- Tali MacArthur, PA Environmental Council (PEC)/PA Organization for Watersheds and Rivers (POWR)(PA)

- **Support:**

- David Bressler, Stroud Water Research Center (PA)

- ***Meetings: 1st Thursdays, 11:00a – 12:30p (Zoom, <https://zoom.us/j/5889670619>)***

Local Policy/Practice Work Group

Short Term Charge:

To develop the most effective way of employing stream monitor data – conductivity, temperature, depth, and sometimes turbidity – and related measures to advise and otherwise influence municipal entities. The charge includes an emphasis on stream quality in relation to land use and development.

Updates from Local Policy/Practice Workgroup

Deliverable Updates

Temperature

- Guidance Document – *Putting Stream Temperature Data To Work (Last Stages of Internal Review)*
- One-pager

Municipal Interactions

- Document 5 – *Municipal Engagement (Open External Review [Incorporating information from additional states])*

Conductivity

- *Guidance Document (Outline by November)*

Updates from Local Policy/Practice Workgroup

Putting Stream Temperature Data to Work

Update

- *Final Stages of Internal Review*
 - *Members of the LPPWG will be reading and suggesting edits*
 - *Reaching out to partners for external review*
- *Discussion of making a 1-page executive document and supporting materials*
- **Question for the Group** – *Would a temperature fact sheet be helpful? If so, what use cases would you tend to use a fact sheet for?*

Updates from Local Policy/Practice Workgroup

How to Engage with Municipal Leaders (aka Document 5)

Update

- *Openly available for external review*
 - *Should be distributed soon via Stroud*
- *There will be a feedback survey which will document requested changes or suggestions*
- *The document will “live” in one place (<https://wikiwatershed.org/drwi/>) but be distributed via partners*

Any questions before we move on?



Today's Presentation

November 16 – Student presentations

- Jay Byrd (Student, Intern – Heinz National Wildlife Refuge)
- Elisabeth Ruschmann (Student – Princeton University)
- Saranya Anantapantula (Student – Springfield High School)
- Toby Broun (Student, Volunteer – Saucon Creek Watershed Association)

Elisabeth Ruschmann

- Sophomore at Princeton majoring in economics with concentrations in data science and environmental science
- Interested in a sustainability startup or sustainable finance after college
- Volunteer at Princeton's garden
- Involved with a venture capital club that invests in sustainable startups

Jay Byrd

- Alliance for Watershed Education of the Delaware River (AWE) fellow at John Heinz National Wildlife Refuge
- Visitor's services intern at John Heinz National Wildlife Refuge
- Student at Delaware County Community College (transferring to biology at a university soon)
- Interest in wildlife and would love to be an environmental educator
- Has led many events to help protect and spread admiration for the Delaware River watershed

Toby Broun

- Allentown Central Catholic High School, Allentown, PA
- Volunteer, monitoring support to the Saucon Creek Watershed Association and Lehigh Valley Watershed Coalition

Saranya Anantapantula

- Spring-Ford Senior High School, Royersford, PA
- Writer of The Green Blog
- Founder of 4AGreenEnvironment
- Host of Women in Environmental Science
- Book: Gateway to Environmental Solutions Paperback

Mentors currently available

- Carol Armstrong (MWS), mnem.np@gmail.com, 610-659-7477
- Christa Reeves (Musconetcong Watershed Association/Stroud Center), christa@musconetcong.org, 727-520-5849

Conclusion

Next month's meeting will be on:

Thursday December 14, 2023
2:30-3:30p

Onward!

Stroud Water Research Center contacts:

- David Bressler, dbressler@stroudcenter.org, 410-456-1071
- Shannon Hicks, shicks@stroudcenter.org, 610-268-2153 x267
- Christa Reeves, christa@musconetcong.org, 908-537-7060

Master Watershed Stewards contacts:

- Carol Armstrong, mnem.np@gmail.com, 610-659-7477
- George Seeds, geoseeds@verizon.net, 484-886-9586