

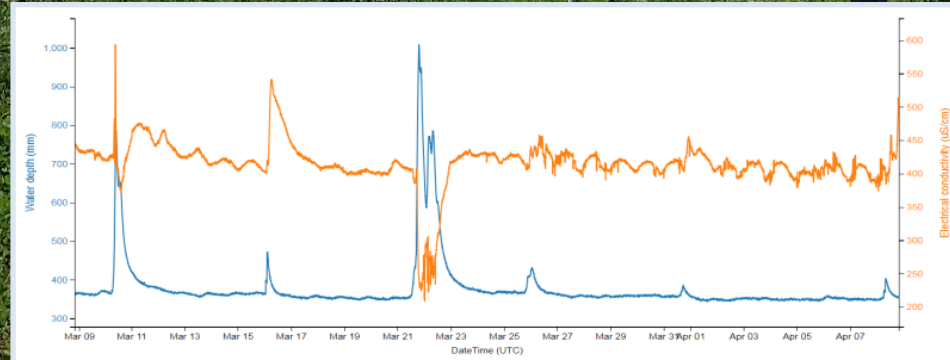
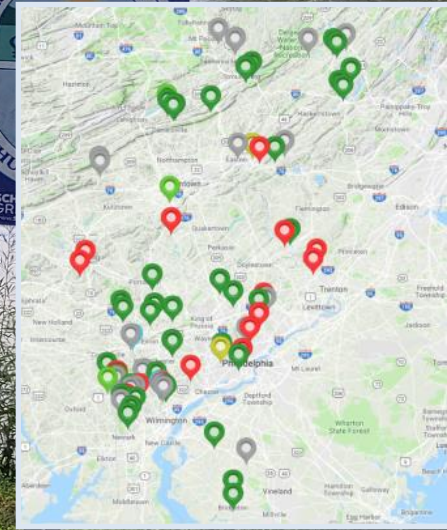
# WELCOME!

## Monthly EnviroDIY-DRWI User Group Meeting

*Online, Thursday December 17, 2020, 2:30-3:30p*



 **Monitor My Watershed®**



**STROUD**  
WATER RESEARCH CENTER



# Monthly EnviroDIY-DRWI User Group Meeting

Fifth Meeting!

# 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 will be sent one week prior to each month's meeting
  - Station owners/managers organize volunteers/others to attend and share Zoom link

# REMINDER

- Time to check-in
- Attendees include:
  - Groups working in Delaware River Watershed Initiative
  - Groups working in Delaware Basin but not DRWI
- Stroud Center support via DRWI and C-SAW



# Delaware River Watershed Initiative

**4States1Source**

The Delaware River Watershed Initiative

[OUR WATER](#) [OUR WORK](#) [FIELD NOTES](#) [TAKE ACTION](#)

DELAWARE RIVER WATERSHED INITIATIVE

Working across four states to  
protect one shared source of clean  
water

# Goals for these monthly meetings

- **Time/space to check-in, ask questions, report issues, network, etc.**
- **Station Owner/Manager Presentations** – communicate about individual situations, local work
- **Focus Topic Presentations** – guest presenters talk about technical/ecological/other focus topics each month
- **Updates** from Stroud Center

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

# Facilitators

## Stroud Center Facilitators:

David Bressler, Rachel Johnson, Christa Reeves, Shannon Hicks



## Master Watershed Steward Facilitators:

Carol Armstrong, George Seeds (Chester & Delaware Co.)

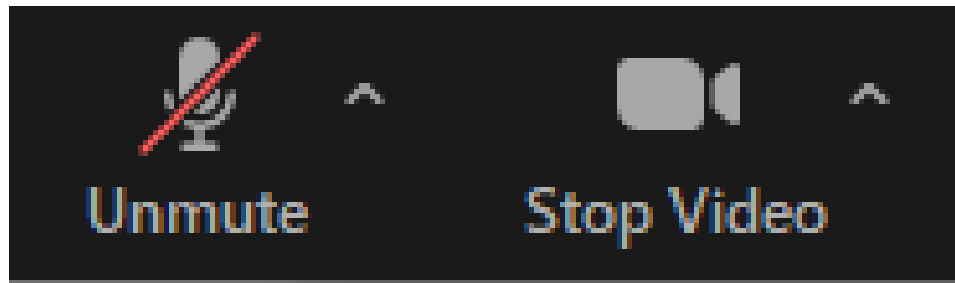




# Zoom Orientation



**\*Meeting is being recorded**



**\*Mute unless asking question**



# These Monthly Meetings

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



Search



August 2020 EnviroDIY-DRWI Monthly Meeting

15 views • Aug 25, 2020

0 0 SHARE SAVE ...

# Monthly Meeting Agenda Format

1. Introduction
2. Monthly station owner/manager presentation
3. Monthly focus topic
4. Open discussion
5. **Photos of the month!**
6. Conclusion

***\*Adjust this format according to natural progression/development/needs of meetings***

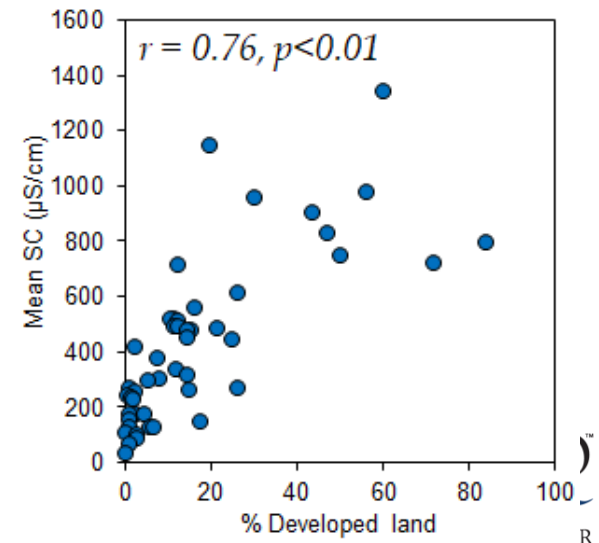
# Today's Agenda

1. Introduction, review agenda, updates – 5 min
2. Monthly station owner/manager presentation – 10-20 min
  - Primrose Creek Watershed - Monitoring and litigation in a watershed with quarry dewatering, sinkholes, and subterranean stream flow – Francis Collins, Primrose Creek Watershed Association
3. Monthly focus topic – 10-20 min
  - Electrical Conductivity in Streams, Part 2 – John Jackson, Stroud Water Research Center
4. Surveys – 5-7 min
  - Two Zoom polls and two open-ended online polls – for general feedback on usefulness of the meetings
5. Open discussion – 10 min
6. Conclusion



# Stroud Center Perspective – EnviroDIY in DRWI

- **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







# Stroud Center Updates

- PLEASE, **share** photos

**<http://bit.ly/2SmhZBK>**

Shared with me > DRWI Sensor Station Photos ▾

Name ↑	Owner	Last modified
 _Field and Station Issues	me	Oct 15, 2020 me
 <u>_MonthlyMeetings_PhotosoftheMonth</u>	me	11:38 AM me
 _oldformat	me	10:32 AM me
 _Workshops and Trainings	me	Aug 29, 2019 me

# Stroud Center Updates

**<https://www.envirodiy.org/events/>**

Virtual Workshop: Building an EnviroDIY Monitoring Station

**February 9, 2021 - February 10, 2021**



**\*Register by  
Dec 31, 2020**

**When:** February 9-10, 2021, noon to 4 p.m. each day.

**Where:** Zoom Meeting



# Stroud Center Updates

**<https://www.envirodiy.org/events/>**

## **The Journey from River to Faucet: How Collaboration Between States Ensures Adequate Drinking-Water Supply Across the Delaware River Basin**

**When:** Wednesday, January 13, 2021, 12:30–1:15 p.m. EST

**Where:** Online via Zoom

# Stroud Center Updates

- In Situ Dissolved Oxygen probe for EnviroDIY stations – Sara Damiano (Stroud) making progress

## RDO PRO-X

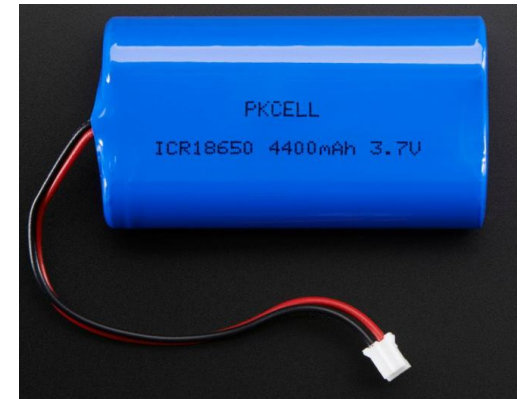


# Stroud Center Updates

- New battery charger available – AVAILABLE IN LIMITED SUPPLY FROM STROUD (requires modification from supplier)



Recommended 4400 mAh battery,  
<https://www.adafruit.com/product/354>





Any questions before we move on?





# Monthly station owner/manager presentation

**Primrose Creek Watershed – Monitoring and litigation in a watershed with quarry dewatering, sinkholes, and subterranean stream flow**



**Francis Collins, Primrose Creek Watershed Association,**  
**[crashcollins88@me.com](mailto:crashcollins88@me.com)**

# Monthly Focus Topic

## Electrical Conductivity in Streams, Part 2



**Dr. John Jackson, Stroud Water Research Center,**  
[jkjackson@stroudcenter.org](mailto:jkjackson@stroudcenter.org)



# Surveys

- Two questions in Zoom polls
- Two open-ended questions – link in chat, copy and paste into web browser

# Questions/Discussion

- Questions for today's presenters?
- Questions about your station(s)?
- Questions about field visits and Quality Control?
- Questions about Monitor My Watershed?
- Questions about data patterns, ecology?
- Questions about troubleshooting?

# Back up discussion topics

- Assistance/support needs?
- Covid-19 issues
- 4G upgrades by end of 2020
- Storms
  - Checking stations in person
  - Importance of latching logger boxes
  - **Importance of checking stations even if data look good, e.g., Reeves recent turbidity sensor burying situation**
  - Channel changes, e.g., Valley Creek at Valley Creek Park
  - Importance of QC depth, e.g., Taylor Run
- Conductivity, temperature, depth, turbidity data in ecological context
- Preparing for winter – station maintenance, road salt issues



# Conclusion

Next month's meeting will be on:

**Thursday January 21, 2020,  
2:30-3:30p**



# Future meeting presenters

- Monthly station owner/manager presentations
  - Jan 21 – Juniper Leifer and Kristine Rogers, Lopatcong Creek Initiative and Wallkill River Watershed Management Group, A watershed characterization for working with local decision-makers
  - Feb 18 – Patty Haug, West Chester University, Connecting the dots on the landscape
  - Mar 18 – Dr. Paul Wilson, East Stroudsburg University, Undergraduate Labs on EnviroDIY and WikiWatershed
- Monthly focus topics
  - Jan 21 – Scott Ensign, Stroud Center, Turbidity data across the Delaware Basin
  - Feb 18 – Sara Damiano, Stroud Center, Turbidity data across the Delaware Basin

**\*Please be in touch if you'd like to do an owner/manager presentation or a focus topic presentation**

# Monthly Meetings

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- Zoom link will remain the same:  
<https://us02web.zoom.us/j/81881801310?pwd=eUFmbXZLbmRibVcxa1dtNVhzRmNvZz09>
- **Station owners/managers organize volunteers/others to attend and share Zoom link**

# Mentors currently available

- Carol Armstrong (MWS), [mnem.np@gmail.com](mailto:mnem.np@gmail.com), 610-659-7477
- George Seeds (MWS), [geoseeds@verizon.net](mailto:geoseeds@verizon.net), 484-886-9586
- Rachel Johnson (Stroud Center), [rjohnson@stroudcenter.org](mailto:rjohnson@stroudcenter.org), 973-557-8995
- Christa Reeves (Stroud Center)(in the north, situational), [christa@musconetcong.org](mailto:christa@musconetcong.org), 727-520-5849

***\*Anyone else interested? If so get in touch with Stroud Center or Carol or George***

# Resources to Support the Work

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

Delaware River Watershed Initiative Resources

## General Resources

- ▼ EnviroDIY Field Visit Data
- ▼ EnviroDIY Monitoring Station Help Resources
- ▼ Data and Data Visualization Resources
- ▼ Project Updates and Station User Monthly Meetings
- ▼ Volunteer Management Guidance Materials
- ▼ WikiWatershed Toolkit

## Workshop Resources

- ▼ Delaware Watershed Research Conference
- ▼ EnviroDIY Monitoring Station Management Workshop
- ▼ EnviroDIY Monitoring Station User Group Gatherings
- ▼ Master Watershed Steward Workshops
- ▼ Teacher Workshops
- ▼ Watershed 101, 102, and 201



# Resources to Support the Work

- **Delaware Basin EnviroDIY Monitoring Stations**, private online group (<https://wikiwatershed.org/groups/delaware-basin-sensor-stations/>)

## Delaware Basin EnviroDIY Monitoring Stations



- Pose questions to the user group community
- Check for updates and new posts
- Set it for daily or weekly email updates



# Onward!

## Stroud Water Research Center, EnviroDIY-DRWI contacts:

- David Bressler, [dbressler@stroudcenter.org](mailto:dbressler@stroudcenter.org), 410-456-1071
- Shannon Hicks, [shicks@stroudcenter.org](mailto:shicks@stroudcenter.org), 610-268-2153 x267
- Rachel Johnson, [rjohnson@stroudcenter.org](mailto:rjohnson@stroudcenter.org), 973-557-8995
- Christa Reeves, [christa@musconetcong.org](mailto:christa@musconetcong.org), 908-537-7060

## Master Watershed Stewards, EnviroDIY-DRWI contacts:

- Carol Armstrong, [mnem.np@gmail.com](mailto:mnem.np@gmail.com), 610-659-7477
- George Seeds, [geoseeds@verizon.net](mailto:geoseeds@verizon.net), 484-886-9586

Rachel Becker-Klein  
2:24 PM (20 minutes ago)  
to me, Mary

Dave, so the deal is that you have to create the Zoom polls within your own Zoom account (or whichever will be the host). You should have the info you need to do so with (1) and (2) below...

- (1) How was the depth of information provided?  
Too deep, Just right, Not deep enough
- (2) How useful was the presentation?  
Not very useful, Somewhat useful, Quite useful, Very useful

For the two open-ended/word cloud questions through Poll Everywhere (or another platform if you have a preference):

- Please describe the most useful things you learned from this meeting
- What other resources/information would you need in order to apply what you learned in this meeting?

You provide a link (I created this one that you can use: **[PollEv.com/rachelbecker341](https://poll-ev.com/rachelbecker341)**) in the chat window and when people navigate to that, they get those two questions. As they respond, a Word Cloud is generated and you can share that word cloud with the group, and then we can download their responses to do more analysis if we want.

I should be able to join the monthly meeting for the last 1/2 hour (if that's not too disruptive), but I have an Advisory meeting for an NSF grant from 1-3 that day.

I do have some time next Tuesday, Dec 15 (anytime except for 2-3 pm) if you want to try any of this out...

Rachel