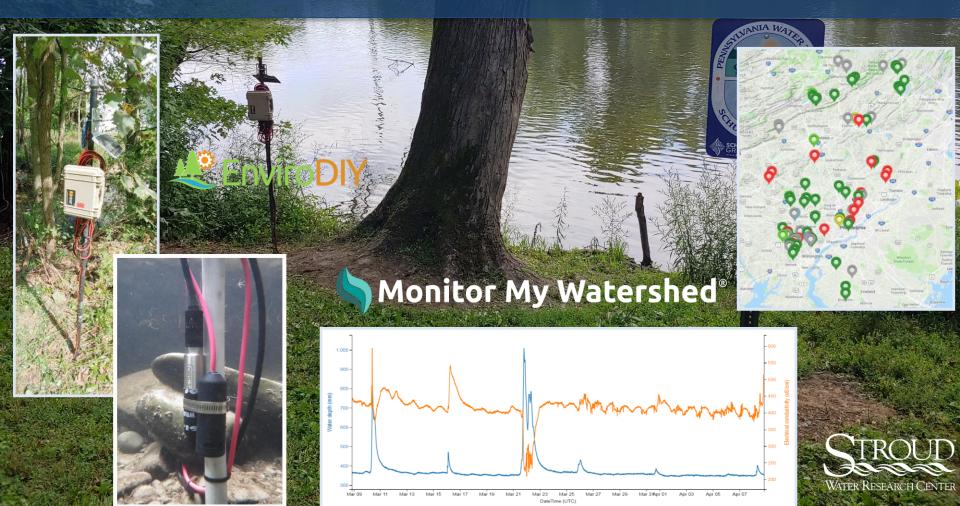
# WELCOME! Monthly EnviroDIY-DRWI User Group Meeting Online, August 20, 2020, 2:30-3:30p



# Monthly EnviroDIY-DRWI User Group Meeting

# First Meeting!



# Zoom Orientation

#### \*We WILL be recording presentations but WILL NOT be recording the Questions section



\*Everyone should be muted other than current speaker

\*Other than zoom logistics, audio, video etc. please save questions for the question period



### Introductions

#### **Stroud Center Facilitators:**

David Bressler, Rachel Johnson, Christa Reeves, Shannon Hicks









#### Master Watershed Steward Facilitators:

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











# Monthly Meetings

- Every third Thursday of the month
- 2:30-3:30p
- Zoom link will remain the same
- 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



### Monthly Meeting Agenda Format

- 1. Introduction 5-10 min
- 2. Monthly station owner/manager presentation 10 min
- 3. Monthly focus topic 10 min
- 4. Open discussion 25 min
- 5. Conclusion 5-10 min

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



### Today's Agenda

- 1. Introduction, review agenda, updates 5-10 min
- 2. Monthly station owner/manager presentation 10 min
  - Christa Reeves, Musconetcong Watershed Association and Stroud Water Research Center
- 3. Monthly focus topic: Power/battery questions, issues, and recommendations 10 min
  - Rachel Johnson, Stroud Water Research Center
- 4. Open discussion 25 min
  - Discuss questions from attendees, address technical issues, review projects, goals, logistics
- 5. Conclusion 5-10 min



### Goals for these monthly meetings

- Time/space to check-in, ask questions, report issues, network, etc.
- Station owners/managers to communicate about their individual situations
- Educate on important technical/ecological/other focus topics each month.
- Updates from Stroud Center

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



#### Delaware River Watershed Initiative

**4States1Source** 

The Delaware River Watershed Initiative

OUR WATER OUR WORK FIELD NOTES TAKE ACTION

DELAWARE RIVER WATERSHED INITIATIVE

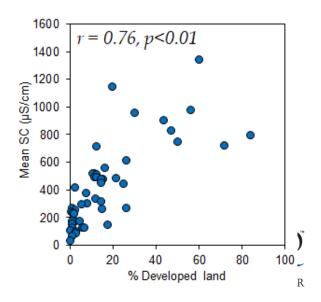
#### Working across four states to protect one shared source of clean water



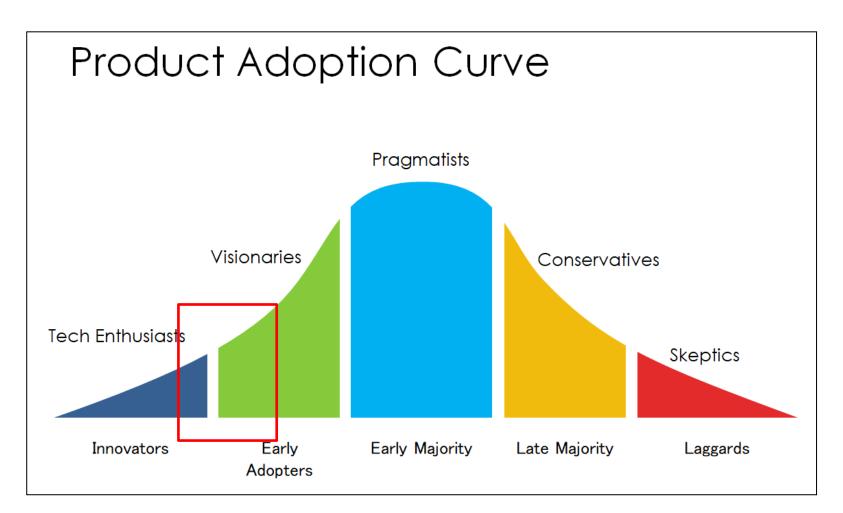
#### Stroud Center Perspective – EnviroDIY in DRWI

- Primary Goal
  - Support Station owners, managers, and volunteers in maintaining stations and using them for their own purposes
- Secondary Goal
  - Analyze basin-wide data set
  - Develop tools for station owners to characterize and contextualize watersheds





### It's a new project with a new product





fppt.com

### Any questions before we move on?

#### Monthly station owner/manager presentation

#### Musconetcong River, NJ and surrounding watersheds



Christa Reeves, Water Quality Field Specialist, Musconetcong Watershed Association; Field Technician, Stroud Water Research Center



### Monthly Focus Topic

Power/battery questions, issues, and recommendations



Rachel Johnson, Research Engineer Technician, Stroud Water Research Center



### Questions/Discussion

- Questions for today's presenters?
- \*Everyone video on

- 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

- Covid-19 issues
- 4G upgrades by end of 2020
- Recent storm issues
  - 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
- Pressure transducer failure
  - Temperature/Depth correlation as a sign for pressure transducer failure, e.g., Forest Hill Run
  - Negative depth, e.g., UT to Cobbs
  - Out of range depth, e.g., Loper Run
- Temperature data in ecological context, coldwater fish, etc.



#### Conclusion

Next month's meeting will be on:

# Thursday September 17, 2020, 2:30-3:30p

# Monthly Meetings

- Every third Thursday of the month
- 2:30-3:30p
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#### Future meeting presenters

- Monthly station owner/manager presentations
  - September Carol Armstrong, Pickering Creek stations
  - October George Seeds and Patty Haug, West Chester, PA stations
  - November ???
- Monthly focus topics
  - September Temperature data?
  - October CTD pressure transducer and depth data?
  - November Importance of Quality Control?



### Adjusting meeting template as needed

- Sign-up form for monthly station owner/manager presentations?
- Submission form (or other method) for proposing monthly focus topics?
- Submission form (or other method) for attendees to submit discussion questions in advance?
- Monthly site-specific data investigations monthly in-depth look at an individual station's data and the watershed?



# Mentors currently available

- Carol Armstrong (MWS), <u>mnem.np@gmail.com</u>, 610-659-7477
- George Seeds (MWS), <u>geoseeds@verizon.net</u>, 484-886-9586
- Rachel Johnson (Stroud Center), rjohnson@stroudcenter.org, 973-557-8995
- Christa Reeves (Stroud Center)(in the north, situational), <u>christa@musconetcong.org</u>, 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

#### EnviroDIY Field Visit Data Sheet

- Enter field visit data
- <u>View field visit data</u> (Looking for <u>older data</u>?)

#### Data Sheets

- EnviroDIY Field Visit Data sheet (blank)
- EnviroDIY Field Visit Data sheet tutorial
- <u>Stream Discharge Data sheet</u>

#### Data and Data Visualization Resources

- Monitor My Watershed
- Monitor My Watershed help resources
- <u>http://drwisensors.dreamhosters.com/</u>

#### Sensor Station Help Resources

#### Manuals

- <u>DRWI sensor station manual</u> (more complete, access limited to DRWI users)
- <u>Sensor station manual</u> (formal, publicly available version)

#### **Quick Guides**

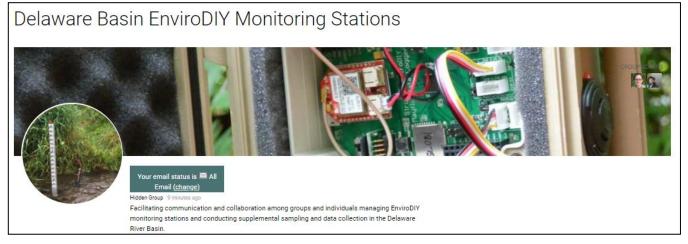
- <u>Data patterns quick guide</u>
- <u>Time zone guide</u>
- Maintenance quick guide
- <u>Quality control quick guide</u>
- Understanding your EnviroDIY Mayfly sensor station data

#### Video Tutorials

- Sensor station installation
- Discharge rating curve calculator: <u>Using Flowmeter Data | Using Neutrally Buoyant Object Data</u>
- Load calculator: Part 1, Entering Rating Curves | Part 2, Preparing Sensor Data | Part 3, Calculating Storm
- <u>Stage to Area Predictor: Entering Cross Section Data</u>
- Sensor Bundle Maintenance: Sensor Cleaning and Bundle Removal
- Collecting a Grab Sample and Building Site Rating Curves
- Performing Quality Control on the Site and Sensor Station
- <u>Downloading Sensor Station Data</u>
- Installing a Staff Gauge at Your Sensor Station Site

## Resources to Support the Work

- Private Online Group
  - "Delaware Basin Sensor Stations" private online group (<u>https://wikiwatershed.org/groups/delaware-basin-sensor-stations/</u>) name change to "Delaware Basin EnviroDIY Monitoring Stations"



- Get familiar with this online group, use it to:
  - 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, 410-456-1071
- Shannon Hicks, shicks@stroudcenter.org, 610-268-2153 x267
- Rachel Johnson, rjohnson@stroudcenter.org, 973-557-8995
- Christa Reeves, christa@musconetcong.org, 908-537-7060

Master Watershed Stewards, EnviroDIY DRWI contacts:

Carol Armstrong, mnem.np@gmail.com, 610-659-7477

George Seeds, geoseeds@verizon.net, 484-886-9586