

2018 Education Department Highlights

<https://stroudcenter.org/education>

<https://wikiwatershed.org>



PROGRAMMATIC SUCCESSES

- Total # face-to-face impacts through programs, conferences, trainings: **8,491**
 - K-12 students: **4,376** (51%)
 - College & University Students: **80** (1%)
 - Training & Professional Development: **587** (7%)
 - Community Engagement Events, Estimated # of attendees: **2,519** (30%)
 - Conference & Event Presentations, Estimated # of attendees at Stroud Center Sessions: **929** (11%)
- **90** onsite programs, **111** offsite programs
- **200** program contact days, **65** different schools and organizations
- Outreach in **11** U.S. states (GA, PA, VA, MA, MD, MT, MI, DE, NJ, NV, WA) and **15** Pennsylvania counties
- **33** training and professional development workshops
- **19** presentations at professional conferences and events
- **3** tree planting/monitoring events with students ranging from 10 - years of age to high school
- Assisted with **2** summer river treks and **8** summer camps: Coatesville Youth Initiative-Brandywine Trek, Schuylkill Headwaters Association-Schuylkill Acts & Impacts River Expedition, Migrant Ed (Millersville University), and TIDE Camp (University of Delaware).
- **10** different scout-related programs. Launched the delivery of BSA merit badges: Soil & Water Conservation, Fish and Wildlife Management; and Cub Scout NOVA STEM award, Science is Everywhere.
- Partnerships/schools/programs to note:
 - All West Chester Area School District's 4th graders (**10** schools; 900+ students) again during October
 - Schools (New schools in **bold**): Avon Grove Intermediate, **Bethany Christian**, **Coatesville H.S.**, Devon Elementary, East Bradford Elementary, East Goshen Elementary, Exton Elementary, Fern Hill Elementary, Garden Spot H.S., Glen Acres Elementary, **Greenwood Elementary**, Hillside Elementary, Hopewell Elementary, **Independence School**, J.R. Masterman, Kennett H.S., Mary C. Howse Elementary, **McCall School**, **Milton-Hershey School**, Newark H.S. **Octorara H.S.**, Paulsboro H.S., Penn Wood Elementary, Pocopson Elementary, Renaissance Charter School, Starkweather Elementary, Tattnall School, **Unionville H.S.**, Upland Country Day School, W.B. Saul H.S. , Westtown-Thornbury Elementary
 - Professional development and training workshop partners: Millersville University WETi field station, Chester County Intermediate Unit, Longwood Gardens, PA Master Watershed Stewards, Pennsylvania Department of Environmental Protection
- Webinars: Continued to present WikiWatershed.org series
- Leaf Pack Network continues as a successful international stream monitoring program with over **400** groups
- **5** businesses donated through the PA EITC tax credit program to support education for public school children



GRANT PROJECT HIGHLIGHTS

- William Penn Foundation and NSF funded WikiWatershed/Model My Watershed user interface updates and new features
- EPA EE Model grant "Greening STEM Technologies: A model for advancing DIY environmental sensing networks to support citizen science and primary and secondary education" finished. We deployed **14** sensor stations, trained **25** teachers, and engaged **90** additional citizens in our 2-day training workshops in **4** U.S. states
- NSF sub-award with Carnegie Mellon University "Learning to See, Seeing to Learn": Continued development of alpha version launched on macroinvertebrates.org website. Delivered **3** trainings on the new site
- NOAA PA Watershed Education Capacity Building: Led first Meaningful Watershed Educational Experience (MWEE) Ambassador training workshop for non-formal environmental educators.
- NSF Thermal Variations: Over **7** Unionville High School students from 3D and 2D classes collaborated with our department to create models of aquatic benthic macroinvertebrates.

The Education Department Includes 12 Educators with >230 Years of Combined Teaching Experience!

EDUCATION PROGRAM FEEDBACK

I want to personally thank you for your partnership with our district. It has been a very positive experience for students, teachers, and parents. Well done!

- R. Rodriguez, Teacher

I chaperoned a field trip to the Stroud Center with a large group of students. The instructors were very knowledgeable. They challenged the kids and held their interest - They were all pros at the classroom management. This was by far tops on my list for field trips. Thanks for a great day!

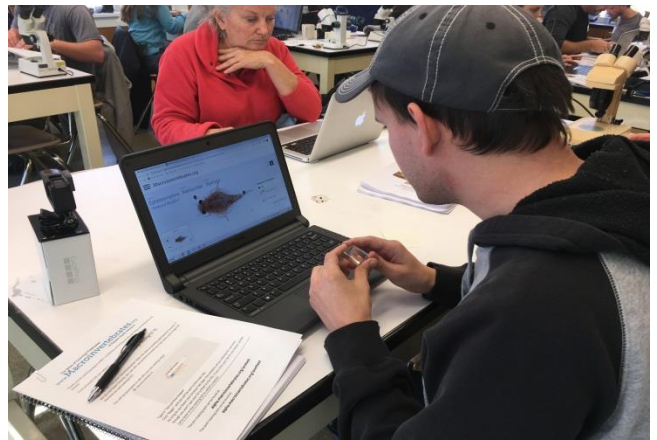
-R. Beegle-Renna, Parent

Many students and teachers informed me that this was one of the best field trips that they have ever been on and I have to agree. I am delighted that we are continuing this partnership of teaching and learning. I was able to observe all the great stuff that you are doing for the environment. Your teachers today were very well prepared and went the extra mile to meet the needs of our diverse learning community.

-M. Garvin, Assistant Principal, Avon Grove Intermediate School



As we grow in our programming, we explore new opportunities to bridge students together with their local watersheds such as these high school students on Octoraro Reservoir.



We continually create and disseminate learning tools for the public such as the online digital learning library of aquatic macroinvertebrates on macroinvertebrates.org.



2018 was a big year for teacher professional development workshops with new partners and in new areas of the United States!



Summers continue to 'flow' with over nine different camps from Scouts to on-the-water river treks.

The education department was recognized as the Outstanding Environmental Education Program by the Pennsylvania Association of Environmental Educators in 2015. The WikiWatershed toolkit was awarded the 2017 Governor's Award for Excellence by the Pennsylvania Department of Environmental Protection.