

***How can your school, community, or association utilize the Mobile Environmental Display . . .***

- For questions and answers . .
- To schedule a date and time for your event . .
- Contact MED Coordinator Laura Sue Stewart at 724-545-3601 or e-mail at [lsstewart@co.armstrong.pa.us](mailto:lsstewart@co.armstrong.pa.us)



EQT Corporation provided funding through a grant opportunity to purchase a tow vehicle which was converted to compressed natural gas (CNG). This dual fuel vehicle will educate participants about natural gas characteristics and its low threat to land and water.



THANKS TO THE FOLLOWING  
CONTRIBUTORS  
THAT  
MADE THIS ALL POSSIBLE

*Colcom Foundation*

**EQT**



**Armstrong  
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Charitable  
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**Armstrong Conservation District**



**Mobile Environmental Display**



**A**rmstrong Conservation District has launched a new conservation project for the county and other rural counties within the Ohio River Watershed: H<sub>2</sub>O! On the Go! Mobile Environmental Display (MED) - a traveling exhibit, modeled after Carnegie Science Center's popular H<sub>2</sub>O! Why Our Rivers Matter exhibit, consisting of a trailer and a compressed natural gas (CNG) vehicle. The MED is an education and outreach project intended to reach all age groups over a diversity of educational venues.



Provided through a generous grant from the Colcom Foundation, visitors to the MED will be able to interact with 10 displays for hands-on scientific enrichment that will focus primarily on water education and conservation. The 10 displays, developed by Carnegie Science Center include:

- **Water Quiz Game** - A touch screen activity challenges students to answer questions about water resources and fill the water glass with correct answers.
- **Ripple Tank** - Visitors create waves and study the different patterns - single, double, and interconnected.
- **Wind Erosion Farm** - A chamber filled with swirling sand allows visitors to control the flow and direction to demonstrate the effects of wind erosion around a farm house, barn, and crop field.
- **Porosity/Permeability Funnels** - A rotating disk with funnels filled with beads simulating rock strata show how water travels through different sized particles.
- **Waveform Tank** - Waves are created and studied in a tilt-able tank.
- **Frozen Raindrop** - Visitors can freeze drops of water in mid-air via a strobe light and study the movement.
- **Drag Race** - Three shapes moving through fluid demonstrate the effects of drag on objects in water.
- **Virtual Watershed** - As users create hills and valleys in a sandbox, a color coded topographical map is projected. Sensors track the changes and continuously adjust the overlay. The user can then create virtual rain and observe the behavior of the virtual water.
- **See Like a Fish** - Visitors are able to look around with eyes on the sides of their head.
- **Gravity Well** - A companion exhibit to the porosity display to demonstrate the effects of gravity.

