

EPCAMR shares our educational philosophy with Professor David Sobel, author of *Place-Based Education: Connecting Classrooms & Communities*, (Great Barrington, MA: Orion Society, 2004). Place-based education differs from conventional text and classroom-based teaching by emphasizing the students' local communities as a primary resource for learning. **EPCAMR** promotes education directly rooted in local communities—the unique history, environment, culture, economy, literature, and art of a particular place, as it related to watersheds, mining history, and civic issues. It is important that students establish knowledge of their own “place,” their immediate schoolyard, neighborhood, town and the greater region. **EPCAMR** wishes to bestow upon students a “sense of place” rather than focusing exclusively on national or global issues they do not commonly experience in a first person, hands-on environment.



EPCAMR Staff is interested in working with school districts across Northeastern PA, particularly those impacted by abandoned mine drainage (AMD).

If you wish to schedule an environmental education program on abandoned mine reclamation, water resources, aquatic biology, stream remediation and watershed restoration for your school, nature camp, outdoor event, environmental fair, or organization, please contact **EPCAMR** at the information below.

Many resources are available for free on our website through the **EPCAMR** Content Categories.

Just search **EPCAMR** and “like” us directly from



“Reclaiming abandoned mine lands through partnerships today, for a cleaner environment tomorrow!”

Eastern PA Coalition for Abandoned Mine Reclamation

**101 South Main Street
Ashley, PA 18706
570-371-3522 (phone and fax)
info@epcamr.org**

Mine Drainage Menu of Place-based Environmental Educational Programs

presented by

EPCAMR



www.epcamr.org

EPCAMR OUTDOORS



EPCAMR is a public, non-profit organization launched in 1996 to promote & facilitate

the reclamation and remediation of land & water

adversely affected by past mining practices. **EPCAMR**

has been practicing abandoned mine drainage (AMD)

iron oxide resource recovery since 2002, performing its

first AMD Tie-dye Environmental Education Workshops

in 2003. To date, EPCAMR has:

- Coordinated more than 90 AMD Tie-Dye workshops and created more than 10,000 shirts made from recycled mine drainage;
- Distributed more than 1000 pieces of iron oxide chalk to area youth through our Chalk Talk Programs; and
- Provided 10 lbs. of iron oxide powder to other watershed groups, teachers, potters, painters, and other artists throughout 7 states.



PROGRAMS OFFERED**

"What's in your Water?: Abandoned Mine Drainage in Local Watersheds" Education Module. A good overview of AMD set to PA Environment & Ecology curriculum standards.

AMD in a Jar & a Box of Rocks

Info on types of AMD and Mine Land Geology, including coal, limestone, etc. Highly visual and hands-on presentation.

Chemistry Tests

with our HACH AMD Testing Kits for pH, Iron, Alkalinity, and Acidity. Testing can be done on-site, at the water source, or in-classroom.

In-Stream Macro Invertebrate Sampling with Kick-Nets and Identification with *Stroud Water Research Leaf Pack Kit*.

AMD Tye-Dye Workshop for t-shirts, table cloths, unfinished furniture and wood, all with dried AMD. You must provide items to be dyed or find a sponsor.

AMD Chalk Activity Kids make recycled iron oxide red or orange chalk with molds designed manufactured by local Vo-Tech students, soap, and candy molds. Everyone takes some home!

Geographic Information Systems/Global Positioning Demonstrations on how GIS/GPS are utilized to coordinate AMD & Reclamation Projects in the region.

Environmental Education

Curriculum Activities Partnering with St. Vincent College Environmental Education Center. Resources available online, or ask for additional details. http://facweb.stvincent.edu/eec/MRIP/amdec/AMD_Activity_Booklet.htm

FREE**

AMD Presentations Colorful Power-Point's, pictures, and hands-on materials of our reclamation and remediation projects throughout the region. Focus can be customized to accompany current in-school curriculum and local watersheds.

Tree Trout Outdoor Activity Kids will learn to identify aquatic insects, macros in the field and make oak tag cutouts. Kids will sample several streams within their respective school districts and hang macros from trees for media coverage.

Pet Rock Activity

3 rock types to choose from: **Anthracite, Bituminous, or Lignite.** Accompanying educational materials available online.

FREE**

Watershed AMD and Abandoned Mine Land Field Tours Focus on chemical water sampling, bug sampling, visual wildlife habitat assessments, measuring flow, and geocaching; Or, combine both for all day outdoor activities.

THE AMD AVENGERS VS. THE POLLUTION POSSE AMD ACTIVITY & COLORING BOOK

for Elementary Teachers and Students, a great learning tool for adults and community members alike! Interactive comedy skits engage the audience and focus on identifying non-point pollution types/sources, anthracite geology, mining terminology, macro-invertebrates and more. Coloring book available for **FREE DOWNLOAD** on our website!

**Professional Service Fees for EPCAMR's Environmental Education Programs are based on an hourly base rate for our two full time employees & interns. Total program cost will depend on time & distance needed to travel. Mileage costs will be assessed based on the going Federal Government rate of reimbursement. Contact Robert E. Hughes, Executive Director, directly for complete cost breakdowns upon review of the options above.