

**LOCAL
ENVIRONMENTAL
EDUCATION
RESOURCES**

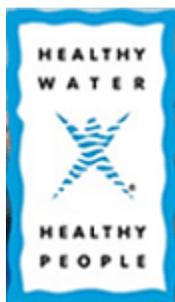
Maryland's Aquatic Resource Education Program



Established in 1990, WET (Water Education for Teachers) is an interdisciplinary water education program which targets educators and young people in grades K-12. The goal of **Project Wet** is to facilitate and promote the awareness, appreciation, knowledge, and management of water resources through the development and dissemination of classroom ready teaching aids. A trained network of teachers, resource professionals, and citizens organize and teach Project WET workshops throughout Maryland. By familiarizing educators with current water resource issues, Project WET ultimately reaches students by incorporating interesting activities, simulations, exhibits, and models into the classroom. For more information about Project WET, please contact Cindy Etgen at 410-260-8710 or cetgen@dnr.state.md.us

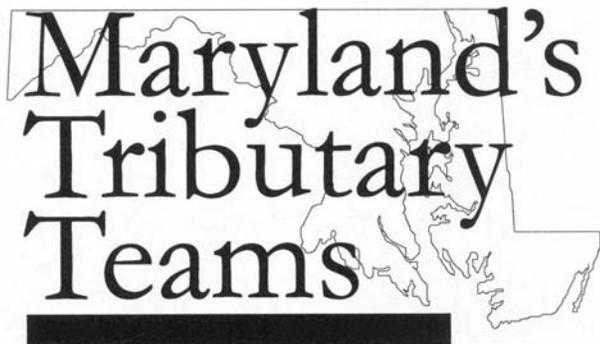
Aquatic Resources Education Conferences

This program introduces educators to workshops and class projects related to aquatic resources. Regional mini-conferences are held during the school year to prepare educators for developing their own environmentally sound projects with their students. Educators are also taught how to write grant proposals for an ARE grant and for the Chesapeake Bay Trust. Past workshops have included schoolyard habitat projects, Wonder of Wetlands, Be Part of Something Big!, and a yellow perch project. For more information, or a grant application, please contact Cindy Etgen at 410-260-8710 or cetgen@dnr.state.md.us



Healthy Water, Healthy People is an innovative water quality education program sponsored by Project WET and the Hach Scientific Foundation; offers hands-on activity guides, testing kits, training, and much more. Healthy Water, Healthy People is for anyone interested in learning and teaching about contemporary water quality topics. For more information about Healthy Water, Healthy People, please contact Cindy Etgen at 410-260-716 or cetgen@dnr.state.md.us

Maryland's Tributary Teams



*...helping to reduce nutrient pollution
and restore the Chesapeake Bay,
its rivers and streams.*

Your River, Your Bay

Not everyone lives next to a stream or river, but all of us live in a watershed. Whether you live right on the water—or, like most Marylanders, within a half mile of your neighborhood stream—your actions on the land can affect water quality in the streams and rivers that feed the Chesapeake Bay.

Maryland's Tributary Teams—comprised of local citizens, farmers, business leaders and government official appointed by the Governor—are working to keep your local waterways clean and healthy.

Maryland's Tributary Teams meet regularly in each of the Bay's ten major tributaries to help implement pollution prevention measures needed to address local water quality problems. These teams are laying the groundwork to ensure clean water and healthy rivers for future generations. A major focus of their efforts is controlling nutrient pollution from farm fields and horse pastures, wastewater treatment plants, construction and road building activities, and hundreds of thousands of suburban properties.

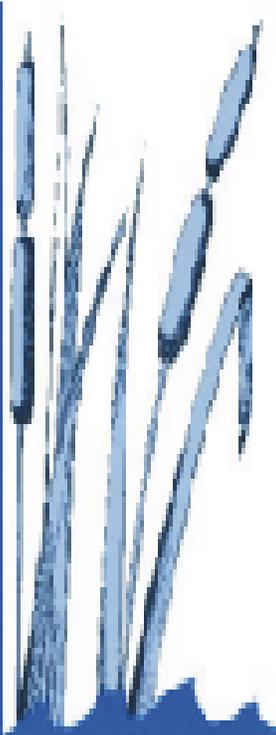
What can these teams do for teachers and youth organizations?

- Connect teachers and groups with water quality data.
- Provide “expert” guest speakers on various environmental issues.
- Partner with them in restoration projects such as oyster gardening, tree grow-out projects, and rain gardens.

Get Connected !

To get involved in your local Tributary Team call 410-260-8710.

<http://www.dnr.maryland.gov/bay/tribstrat/brochure.html>



Chesapeake Bay
MARYLAND

Chesapeake Bay National Estuarine Research Reserve in Maryland

This Reserve system is one of 26 Reserves in 17 states and Puerto Rico established to protect estuarine areas as natural field laboratories for research, monitoring and education. The Maryland reserve system encompasses 4,800 acres in three distinct portions of the Bay: Otter Point Creek in the upper Bay, Jug Bay on the Patuxent River, and Monie Bay on the lower eastern shore. The environmentally diverse habitats represented by these three regions include flooded hardwood forests, freshwater wetlands, and expansive salt marshes. The educational programs of the Chesapeake Bay Reserve in Maryland focus on a wide range of audiences from legislators and coastal decision makers, to environmental professionals, educators, and students. The Anita C. Leight Estuary Center at the Otter Point Creek component serves as the Reserve center for the state. Check out Maryland CBNEER's Web Site: <http://www.dnr.maryland.gov/bay/cbnerr/index.html>

Department of Natural Resources Educational Programs

This is a list of resources that Maryland Department of Natural Resources offers for people interested in educating students or furthering their own natural resources skills. They include student activities, in-class presentations, educator professional development opportunities, and outdoor education opportunities for people of all ages. If you have any questions, please contact:

Elena S. Takaki
 Tawes State Office Building, E2
 580 Taylor Ave.
 Annapolis, MD 21401
 410-260-8715
etakaki@dnr.state.md.us

Program	Target Audience	Key Goal of Program	Website
FISHERIES			
Hooked on Fishing, Not on Drugs™ Donna Fahres 410-260-8721	Ages 7-15	Teach fishing & conservation ethic; drug avoidance.	http://www.dnr.maryland.gov/education/hofnod.html
WATERSHED EDUCATION			
Aquatic Resources Education Grants Cindy Etgen 410-260-8716	Educators	Promote aquatic resources projects in schools.	http://www.dnr.maryland.gov/education/aregrantapp.pdf
Project WET Cindy Etgen 410-260-8716	Educators	Promote teaching of water-related issues.	http://www.dnr.maryland.gov/education/projectwet.html

Program	Target Audience	Key Goal of Program	Website
Storm Drain Stenciling Cindy Etgen 410-260-8716	Educators	Promote teaching of water-related issues.	http://www.dnr.maryland.gov/education/projectwet.html
Check-Up Elena S. Takaki 410-260-8715	Grades 6-12	Guide on how to assess the natural resource use in your school (waste, water, and energy).	http://www.dnr.maryland.gov/smartgrowth/ed/checkup.html
Where Do We Grow from Here? Sandy Olek 410-260-8979	Grades 6-12	A teacher's resource guide on growth and its impacts in Maryland. Includes lesson plans, maps, and background information.	http://dnrweb.dnr.maryland.gov/smartgrowth/home.htm
Maryland Biological Stream Survey Paul Kazyak 410-260-8607	Educators	Use the website to obtain information about chemical and biological sampling conducted throughout the state	http://www.dnr.maryland.gov/streams/mbss

Program	Target Audience	Key Goal of Program	Website
Surf Your Watershed Kevin J. Coyne 410-260-8985	Grades 8-Adult	Website provides data, profiles, bibliographic references, information about on-going projects in Maryland's watersheds.	http://www.dnr.maryland.gov/watersheds/surf
CHESAPEAKE BAY			
Horseshoe Crabs in the Classroom Elena Takaki 410-260-8715 Cindy Etgen 410-260-8716	Grades 3-12	Teach about value of and threats to this resource.	http://www.dnr.maryland.gov/education/horseshoecrab
National Estuarine Research Reserve Bob Finton	K-12 Educators	Teach about coastal ecosystems.	http://dnr.maryland.gov/bay/cbnerri/index.html
Bay Grasses in Classes Mark Lewandowski 410-260-8634	K-12	Teach about value of and threats to this resource.	http://www.dnr.maryland.gov/bay/sav/bgic/grass_class.html
Eyes on the Bay Chris Heyer 410-260-8692	Grades 8 - adults	View real-time data on Chesapeake Bay conditions. Includes lesson plans to support use of the website.	http://mddnr.chesapeakebay.net/eyesonthebay/index.cfm

Program	Target Audience	Key Goal of Program	Website
HUNTER & BOATER SAFETY			
Boater Education Dave Street 410-260-3288	Adults	Environmentally responsible boating behavior.	http://www.dnr.maryland.gov/nrp/boatingsafetyedu.html
Hunter Education	Adults	Safe hunting behavior - required by law	http://www.dnr.maryland.gov/nrp/education
STATE PARKS			
Junior Rangers Steve McCoy 410-260-8150	K-12 (ages 7-14)	Understanding & appreciation of natural resources at State Parks.	http://www.dnr.maryland.gov/publiclands/jrranger.html
Park Naturalist Programs Steve McCoy (Park Naturalists) 410-260-8150	K-12 Adult	Understanding & appreciation of natural resources at State Parks.	http://www.dnr.maryland.gov/publiclands
Outdoor Discovery Camp Cindy Hawkins 410-260-8154	K-12 (ages 8-17)	Understanding of natural resources & recreational opportunities at State Parks.	http://www.dnr.maryland.gov/publiclands/outdoordisc.html

Program	Target Audience	Key Goal of Program	Website
Scales & Tales Steve McCoy 410-260-8150	K-12 Adult	Understanding & appreciation for wildlife and stewardship of natural resources	http://www.dnr.maryland.gov/publiclands/snt.html
Tawes-Natural Resources Club Tawes Garden Day Camp Amy Henry 410-260-885	Ages 6-12	Understanding & appreciation of natural resources at State Parks.	http://www.dnr.maryland.gov/publiclands/daycampapplic.html
Leave No Trace Steve McCoy 410-260-8150	All ages	Teaches stewardship and outdoor ethics through minimum impact recreation.	http://www.dnr.maryland.gov/outdooradventures/Int.html
FORESTRY			
Project Learning Tree Dave Reinecke 410-673-7507	Educators	Understanding of forestry concepts.	http://www.dnr.maryland.gov/forests/kids/plt.html
Arbor Day Curriculum Dave Reinecke 410-673-7507	Educators, 3rd graders	Provide curriculum and free trees to classes.	http://www.dnr.maryland.gov/forests/education/arborday.html
School Forests Pam Kelly 410-260-8589	K-12	Establish school forests for study and environmental benefit	

Program	Target Audience	Key Goal of Program	Website
Tree-mendous Maryland Terry Galloway 410-260-8510	Adults	Tree planting skills.	http://www.dnr.maryland.gov/forests/treemendous
WILDLIFE			
Project WILD Marilyn Mause 410-836-4557	Educators	Understanding of habitat, wildlife and conservation concepts.	http://www.dnr.maryland.gov/wildlife/projectwild.html
Wild Acres Marilyn Mause 410-836-4557	Adults	Promote creating backyard habitat.	http://www.dnr.maryland.gov/wildlife/wildacres.html
Junior Hunter Days Karina Blizzard 410-260-8559	Ages 16 or younger	Safe hunting behavior.	http://www.dnr.maryland.gov/wildlife/wmaintro.html
ADULTS			
Becoming An Outdoors Woman Karina Blizzard 410-260-8559	Adults	Experience outdoors; learn recreational skills.	http://www.dnr.maryland.gov/wildlife/bow.html
Tributary Teams Jamie Baxter 410-260-8987	Adults	Environmentally responsible behavior	http://www.dnr.maryland.gov/bay/tribstrat

Program	Target Audience	Key Goal of Program	Website
GEOLOGY			
Maryland Geology Dale Shelton 410-554-5505	K-12	Teaching of the wonderful and varied geology of Maryland.	http://www.mgs.md.gov/
OTHER			
Bay Game John Wald 410-260-8006	All ages	Teach environmental concepts through a travel game along Route 50.	http://www.dnr.maryland.gov/baygame
Green Schools Elena Takaki 410-260-8715	Educators	Integrate environment into curriculum, school buildings & grounds, and community.	http://www.dnr.maryland.gov/education/greenschools.html
Envirothon Elena Takaki 410-260-8715	9-12	Trains high school students in forestry, wildlife and aquatics issues.	http://www.dnr.maryland.gov/education/envirothon/
Natural Resources Magazine <i>Dorie Coleman</i> 410-260-8002	All ages	Information about DNR's various programs, hot topics, calendar of events, DNR @ Work, and a Natural Education	http://www.dnr.maryland.gov/dnrnews/publications.asp

Maryland Outdoor Education And Nature Centers

Allegany County

WESTERN MD 4-H EDUCATION CENTER

1916 Maryland Highway. Suite A
Mountain Lake Park, MD 21550
Phone: 301-334-6967
Contact: JAMES SIMS

Anne Arundel County

ARLINGTON ECHO OUTDOOR EDUCATION CENTER

975 Indian Landing Road
Millersville, MD 21108
410-222-3822
Contact: Stephen Barry
sgbarry@aacps.org

CAMP LETTS OUTDOOR EDUCATION CENTER (YMCA CAMP)

Po Box 208
Edgewater, MD 21037
Phone: 410-269-6697 or 301-261-4286
Contact: GLORIA BROWN or KYLE IORIO

WEST RIVER OUTDOOR EDUCATION CENTER

975 Indian Landing Road
Millersville, MD 21108
Phone: 410-222-1688 or call Arlington
Echo @ 410-222-3822 or -3823

WOODLANDS OUTDOOR EDUCATION CENTER

975 Indian Landing Road
Millersville, MD 21146
Phone: 410-222-5825 or call Arlington

Echo @ 410-222-3822
Contact: Stephen Barry

Baltimore City

BRAGG NATURE CENTER

6601 Baltimore National Pike
Baltimore, MD 21228
Phone: 410-747-8336
Contact: BEN WALLACE

Baltimore County

IRVINE NATURAL SCIENCE CENTER

ST. TIMOTHY'S SCHOOL
8400 Green Spring Ave
Stevenson, MD 21153
Phone: 410-484-2413 Fax: 410-484-3573
Contact: ROB MARDINEY

CAMP PUH'TOK (SALVATION ARMY)

Contact: ROBERT W. ELDREDGE
Summer Address:
17433 Big Falls Road
Monkton, MD 21111
Phone: 410-329-6590

Winter Address:
2602 Huntingdon Avenue
Baltimore, MD 21211
Phone: 410-366-5081

GENESEE VALLEY OUTDOOR LEARNING CENTER

1717 Rayville Road
Parkton, Md 21120-
Phone: 410-343-0101 or -0138

Fax: 410-343-1451
Contact: JIM CURTIS

OREGON RIDGE NATURE CENTER

13555 Beaver Dam Road
Cockeysville, MD 21030
Phone: 410-887-1854 or 771-0034
Contact: KIRK DREIER, SUE LESLIE, or
GLENN SWISTON

SOLDIER'S DELIGHT

5100 Deer Park Road
Owings Mills, MD 21117
Phone: 410-922-3004

Calvert County

BATTLE CREEK CYPRESS SWAMP

C/O Calvert County Courthouse
Prince Frederick, MD 20678-
Phone: 410-535-5327
Contact: ANDY BROWN

FLAG POND NATURE PARK

Address and Phone same as for
Battle Creek Cypress Swamp

***JEFFERSON PATTERSON PARK AND
MUSEUM***

10545 Mackall Road
St Leonard, MD 20685-
Phone: 410-586-0050 or -9700
Fax: 410-586-9705
Contact: GEORGE ABBEE

KING'S LANDING

King's Landing Road
Huntingtown, MD
Phone: 410-535-2960
Fax: 410-535-7372
Contact: JACKIE WEYMEYER

Carroll County

***CARROLL COUNTY OUTDOOR
SCHOOL***

Hashawha Environmental Center
Maryland Department of Natural Resources

300 John Owings Road
Westminister, MD 21158
Office: 125 N. Court Street
Westminster, MD 21157
Phone: 410-751-3301
Contact: Steve Heacock

FAIR HILL NATURE CENTER

30 Martz Road
Sykesville, MD 21784
Phone: 410-795-6474
Fax: 410-795-6235
Contact: LOREN LUSTIG,
Administrator

HASHAWHA ENVIRONMENTAL CENTER

300 John Owings Road
Westminister, MD 21158
Phone: 410-848-9040
Email: Hashawha@carr.org

Cecil County

***FAIR HILL NATURE AND
ENVIRONMENTAL CENTER***

630 Tawes Drive
Elkton, MD 21921
Phone: 410-398-4909
Contact: HOLLY HANNUM or KAREN
ASPINWALL

Charles County

***NANJEMOY CREEK ENVIRONMENTAL
EDUCATION CENTER***

Charles County Public Schools
Po Box D
La Plata, MD 20646-0170
Phone: 301-743-3526
Contact: STEVE CARDANO
scardano@erols.com

Frederick County

***FREDERICK OUTDOOR SCHOOL
(CAMP GREENTOP)***

C/O Monocacy Middle School

8009 Opossumtown Pike
Frederick, MD 21702
Phone: 301-696-9261
Contact: EDDIE MAIN

SUMMIT LAKE OUTDOOR EDUCATION CENTER

Emmitsburg, MD 21727
Phone: 301-924-3123

Garrett County

HICKORY ENVIRONMENTAL EDUCATION CENTER

604 Pride Parkway
Accident, MD 21520
Phone: 301-746-8461
Fax: 301-746-8461
Contact: JOSEPH L. WINTERS
heec@excite.com

WESTERN MARYLAND 4-H EDUCATION CENTER

1916 Maryland Highway
Suite A
Moutain Lake Park, MD 21550
Phone: 301-334-6967
Fax: 301-334-6961
Contact: PAUL WEBSTER
pw82@umail.umd.edu

Harford County

HARFORD GLEN ENVIRONMENTAL EDUCATION CENTER

502 West Wheel Road
Bel Air, MD 21015
Phone: 410-638-3903
Fax: 410-638-3907
Contact: MARK HERZOG

Kent County

ECHO HILL OUTDOOR SCHOOL

13655 Bloomingneck Road
Worton, MD 21678

Phone: 410-348-5303 or -5880
Fax: 410-348-2010
Contact: PETER RICE or BETSY McCOWN
ehos@bluecrab.org

Montgomery County

LATHROP E. SMITH ENVIRONMENTAL CENTER

5110 Meadowside Lane
Rockville, MD 20855
Phone: 301-924-3123
Contact: Dave Honchalk
Dave_honchalk@fc.mcps.k12.md.us

Prince George's County

CLEARWATER NATURE CENTER

11000 Thrift Road
Clinton, MD 20735
Phone: 301-297-4575
Fax: 301-297-5743
Contact: SANDY LYON

PATUXENT NATIONAL WILDLIFE VISITOR'S CENTER

10901 Scarlet Tanager Loop
Laurel, MD 20708
Phone: 301-497-5760 or -5763
Fax: 301-497-5765
Contact: NEL BALDACCHINO @ Ext 5766

PATUXENT RIVER 4-H CENTER

18405 Queen Anne Road
Upper Marlboro, MD 20774
Phone: 301-390-7259
Fax: 301-390-7883
Contact: Bonnie Dunn

WILLIAM S. SCHMIDT CENTER

Prince George's County Public Schools
18501 Aquasco Road
Brandywine, MD 20613

Phone: 301-888-1185
Fax: 301-888-1236
Contact: JOHN NEVILLE
jneville@erols.com

Queen Anne's County

CAMP WRIGHT

400 Camp Wright Lane
Stevensville, MD 21666
Phone: 410-643-4171
Fax: 410-643-8421
Contact: VAN E. BEERS or NOAH
KEGLEY

St. Mary's County

ELMS ENVIRONMENTAL EDUCATION CENTER

St. Mary's Co Public Schools
Department Of Instruction
27190 Point Lookout Road
Loveville, MD 20656
Phone: 301-475-4230 Fax: 301-475-
4229
Contact: MARIANNE CHAPMAN

Talbot County

PICKERING CREEK ENVIRONMENTAL CENTER

11450 Audubon Lane
Easton, MD 21601
Phone: 410-822-4903

Contact: RICK LEADER, Executive
Director
rleader@pickeringcreek.org

Washington County

FAIRVIEW OUTDOOR EDUCATION CENTER

12808 Draper Road
Clear Spring, MD 21722
Phone: 301-766-8138
Fax: 301-842-1152
Contact: CARL STARK, Principal
starkcar@mail.wcboe.k12.md.us

Wicomico County

PEMBERTON HISTORICAL PARK AND ENVIRONMENTAL CENTER

Pemberton Drive
Salisbury, MD 21801
Phone: 410-860-2447

Worcester County

POCOMOKE RIVER STATE PARK (Milburn Landing And Shad Landing)

Pocomoke River State Parks
Route 3, Po Box 237
Snow Hill, MD 21863
Phone: 410-632-2566
Contact: Lt. Gary Edelhardt



Alliance for The Chesapeake Bay

is a regional nonprofit organization that builds and fosters partnerships to restore the Bay and its rivers. The Alliance does not lobby or litigate. Instead the Alliance does the slow, hard work of bridging dialogue between groups that don't see eye to eye, forming strategies for joint solutions, and building the capacity of communities for local-level action. To this end, the Alliance:

- Develops methods and tools for restoration activities and trains citizens to use them.
- Mobilizes decision-makers, stakeholders, and other citizens to learn about Bay issues and participate in resolving them.
- Provides analysis, information, and evaluation of Bay policies, proposals, and institutions.

The Alliance for the Chesapeake Bay mobilizes citizens to learn about Bay issues and participate in resolving them, providing opportunities for everyone to get involved in some way to help restore the Bay. Getting involved can mean helping a lot or a little.

It can be something as simple as spending a Saturday canoeing a river and learning about its connection to the Chesapeake, or it can mean joining the ranks of a local watershed organization and becoming a leader in local restoration efforts.

For more information about the Alliance, you can go to its web site at <http://www.acb-online.org> or call (410) 377-6270



The Chesapeake Bay Program

Chesapeake Bay since 1983.

is unique regional partnership that has led and directed the restoration of the

The Chesapeake Bay Program partners include:

- ❖ The State of Maryland,
- ❖ The State of Virginia,
- ❖ The State of Pennsylvania,
- ❖ The District of Columbia,
- ❖ The Chesapeake Bay Commission (a tri-state legislative body),
- ❖ The Environmental Protection Agency (representing the federal government; and participating citizen advisory groups.

Education is certainly one of the greatest potential allies of the Chesapeake Bay. As the purveyors of education, teachers and other educators are a crucial link in restoring and protecting the Bay for generations to come. However, for teachers to teach effectively about the Bay, they must have access to the proper resources.

For more information on **Chessie**, Chesapeake Science on the Internet for Educators, a great new resource for Bay area educators, visit us at: [Http://www.bayeducation.net/](http://www.bayeducation.net/)

For more information on the Chesapeake Bay Program, go to: [Http://www.chesapeakebay.net/](http://www.chesapeakebay.net/) or call us at: (410) 267-5700 or 1 (800) YOUR BAY (968-7229)



CHESAPEAKE BAY TRUST

The Trust is a private, nonprofit grant making organization created by the Maryland General Assembly in 1985 to promote public awareness and participation in the restoration and protection of the Chesapeake Bay and its Maryland tributaries.

To accomplish its mission, the Trust receives financial contributions from the general public and the private sector and distributes those contributions in the form of financial support grants to Bay-related programs. Recipients include nonprofit organizations, civic and community groups, schools and public agencies.

Thousands of organizations, agencies and schools throughout Maryland have shared in grants for stream cleanups, tree and marsh grass plantings, erosion control projects, water quality monitoring, habitat restoration, aquaculture projects, recycling activities and the development of awareness programs and educational materials to instill in people of all ages a better understanding of the Bay.

In addition to gifts from private citizens and the business community, the Trust is supported by voluntary donations via the tax check-off on the Maryland income tax return and by sales of the commemorative "Treasure the Chesapeake" license plate.

In 2002, the Chesapeake Bay Trust exceeded its grant giving goals, awarding more than \$1.2 million in grants, and involved thousands of Maryland school children and other volunteers in towns, cities, and counties across the State.

For fiscal 2003, the Trust has set a goal of \$1.3 million for projects that engage Marylanders in the protection and restoration of the Chesapeake Bay, For more information on grants opportunities and a grant application form go to: <http://www.chesapeakebaytrust.org/grantopportunities.html>. To reach us by phone, call: 410-974-2941