

Environmental School – Course 4

Tuesday, March 31, 2020

2:00 – 4:00 pm

Wetlands & Meadow Restoration Tour

Pickering Creek Audubon Center

11450 Audubon Lane, Easton, MD 21601

Tour led by Mark Scallion, Center Director

To start off our 4th course of Environmental School we will have a special visit to Pickering Creek Audubon Center to learn about the 90 acres of constructed wetlands and restored meadows they have created in partnership with Chesapeake Wildlife Heritage. We will learn about the value of large-tract habitat restoration projects to birds and other wildlife, and the Chesapeake Bay. We will do some birding; expect to see waterfowl and wading birds, winter resident birds, and raptors. We will tour two miles of trails on foot across flat but uneven ground, with views of the wetlands from two viewing platforms. Waterproof boots recommended and outerwear for the weather that day.

This is not a required activity of the class but instead a great learning opportunity before we check in to our hotel.

Wednesday, April 1, 2020

Chesapeake College

Higher Education Center, Room 110

1000 College Circle, Wye Mills, MD 21679

7:45 AM - 8:15 – Registration; Coffee/Tea

8:15 AM - 8:30 – Welcome & Announcements

8:30 AM – 9:30 – David Scheid, Environmental Studies Lecturer at Salisbury University.

Ecology - Recognize water resources; surface water, groundwater, hydrologic cycle, supply, distribution, renewal and management; investigate the concerns pertaining to water resources.

9:45 AM – 10:45 – David Scheid, Environmental Studies Lecturer at Salisbury University

Environmental Science - Sustainability – Review the practices a society must use to sustain biodiversity needed in agriculture and economics.

11:00 AM – 12:00 – Doug Myers, Senior Scientist, Chesapeake Bay Foundation, Phillip Merrill Environmental Center, Annapolis, MD

Wildlife – Aquatic Animals - Examine fresh water and salt water animals, their life cycles and benefits to mankind; review their life support ecosystems; the special functions of estuaries, coastal wetlands, and barrier islands.

12:00 PM - 12:45 – Lunch (provided in classroom)

12:45 PM - 1:15 - Drive to Adkins Arboretum

1:15 PM – 2:15 Dr. Leslie Adelman, Youth Program Coordinator at Adkins Arboretum

Youth Programs in Environmental Education – Investigate environmental awareness programs and materials designed for young people.

2:30 PM – 4:30 – Guided Tour of Adkins Arboretum led by Dr. Leslie Adelman. Investigate the connection between native plants, environmental health, and water quality; visit the Arboretum's riparian buffer zone, wetlands, and new demonstration parking lot renovation; hands-on investigations at each stop to highlight water conservation, run-off control techniques, ecosystem services, and wetland plant and animal adaptations.

Thursday, April 2, 2020

Chesapeake College

Higher Education Center, Room 110

1000 College Circle, Wye Mills, MD 21679

7:45 AM - 8:15 – Check In; Coffee/Tea

8:15 AM - 8:30 – Morning Announcements

8:30 AM - 9:30 Lorie Staver, Associate Research Scientist, University of Maryland Center for Environmental Science, Horn Point Laboratory

Tidal Marsh Restoration at Poplar Island: Maximizing Resiliency - Methods used for tidal marsh restoration at Poplar Island; results of over 10 years of monitoring of the marsh vegetation, sediment, elevation; recommendations for restoration based on experiences at Poplar Island.

9:45 AM - 10:45 – John Sandkuhler, Nursery Manager, Environmental Concern, St. Michaels, MD

Plants - Aquatic Plants – Explore plants in aquatic ecosystems, including plant culture, beneficial and harmful plants, eutrophication and the effect of pollutants on aquatic vegetation.

11:00 AM – 12:00 – Suzanne Pittenger-Slear, President, Environmental Concern, St. Michaels, MD

Wetlands – Explore the various types of inland and coastal wetlands, their qualities and functions; discuss natural and human interactions affecting wetlands.

12:00 PM - 12:45 – Lunch (provided in classroom)

12:45 PM - 1:45 – Anna Mudd, Outreach & Advocacy Manager, Chesapeake Bay Foundation, Annapolis

Earth Stewardship: Effective Citizenship – Leadership in protection of earth systems and resources; review meaningful steps to take to protect the environment.

2:00 PM – 4:00 – Course Review & Open Book Exam (only required for those seeking consultant status)

Environmental Schools are open to everyone whether or not they are garden club members.

Questions, Please Contact

State Environmental School Chair: Linda Harris
lindaharris355@aol.com or 443-695-2071

REGISTRATION FORM

Environmental School – Course 4, April 1 & 2, 2020

Name: _____

NGC Garden Club Name (if applicable): _____

NGC State & District: _____

Email: _____

Address: _____

Phone: _____

Please choose your registration:

_____ **Two-Day Course Registration Fee of \$110**

Includes 2 days of 8 class hours, 2 field trips, lunch

_____ **April 1st Only, Registration Fee of \$70**

Includes 4 class hours, 2-hour field trip, and lunch.

_____ **April 2nd Only, Registration Fee of \$60**

Includes 4 class hours and lunch.

Are you taking the exam? Yes ___ No ___

Are you refreshing? Yes ___ No ___

Are you a Master Gardener? Yes ___ No ___

Are you attending the tour on 3/31? Yes ___ No ___

Note: Refreshing Consultants must attend the full course. Students earning credit towards an Environmental Consultants Certificate must take the full course with the exam.

Mail registration form & check to: Linda Harris
3252 Walnut Bottom Rd, Swanton, MD 21561

Make Checks payable to: FGCMDC ECC
(FGCMDC-Environmental Consultants Council)

****Any special needs or diet restrictions? If so, please provide details:**

Hotel Information

Holiday Inn Express Kent Island

1020 Kent Narrows Road, Grasonville, MD 11638

410-827-4454; Check in 3:00 pm

Group rate of \$99/night; Discount Code FGC

Room cost includes breakfast beginning at 6:30 am

Additional Information:

**Breakfast is included in the hotel room cost;
only coffee & tea will be provided at class**

**Directions to hotel, tours, and Chesapeake College
will be provided upon registration**

Course Requirements

Official Text for Environmental School

Living in the Environment by G. Tyler Miller

Reading requirements for Course 4, listed by edition
(Several books are available to borrow)

Chapters should be read before classes start

7th Edition - Chapters 3, 13, 17, 18, 22, 24

8th Edition - Chapters 3, 13, 17, 18, 23, 25

10th Edition – Chapters 8, 10, 11, 18, 19, 26, 27

11th Edition – Chapters 8, 10, 11, 13, 17, 20, 27, 28

12th Edition – Chapters 1, 4, 7, 13, 15, 19, 20, 24, 26, 27, 28; Appendixes 5 & 6

13th Edition – Chapters 1, 4, 7, 14, 19, 24;

Appendixes 1, 2, 3 & Glossary

14th Edition – Chapters 1, 4, 7, 8, 14, 15, 19, 22, 26, 27; Appendixes 2 & 5; Glossary CD-ROM

15th Edition – Chapters 1, 6, 12, 14, 21;
Supplement 5

16th Edition – Chapters 1, 3, 4, 6, 7, 8, 9, 11, 13, 20, 22, 23, 24, 25; Supplements 3, 4, 7, 8, 9, 11, 12 & Glossary

17th Edition – Chapters 1, 8, 11, 13, 24 & Glossary

Environmental School

Course 4

Information & Registration

The Living Earth

Water & Related Issues



Chesapeake College

Higher Education Center, Room 110
1000 College Circle, Wye Mills, MD 21679

Wednesday & Thursday

April 1 & 2, 2020

With Special Tour on March 31st

Sponsored by

**Environmental Consultants Council
Federated Garden Clubs of Maryland, Inc.
Environmental School Chair, Linda Harris**

Hosted by

**Federated Garden Clubs of Maryland, Inc.
Carolyn Braverman, President**