

## REGISTRATION FORM

Environmental Studies School  
Course 2, Series VII – Apr 20-21, 2017  
Agricultural History Farm Park,  
Derwood, MD

### School Fee: Check which applies:

#### Best fee - register before 3/15/2017

Full Course \$75 \_\_\_\_\_  
One Day \$40: 4/20 \_\_\_\_\_ 4/21 \_\_\_\_\_

#### Increased fee – after 3/15/2017

Full Course \$100 \_\_\_\_\_  
One Day \$55: 4/20 \_\_\_\_\_ 4/21 \_\_\_\_\_

### Check if you are:

\_\_\_\_\_ Taking exam or \_\_\_\_\_ Refreshing

### Circle courses already taken: 1 2 3 4

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State \_\_\_\_\_

Zip Code (9-digit) \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Garden Club \_\_\_\_\_

Federated GC State \_\_\_\_\_

Other Affiliation \_\_\_\_\_

**Make checks out to:** NCAGC - ESS

**Mail this form & check to:**

Karen Lucas  
9120 Leesburg Pike  
Vienna, VA 22182

### Lodging Information

Comfort Inn at Shady Grove  
16216 Frederick Road,  
Gaithersburg, MD 20877  
(301) 330-0023

www.comfortinngaithersburg.com

Room rate is \$94 + tax per room, single or  
double occupancy

**Reserve before April 1st to receive this rate for  
the Environmental Study School Group**

### Lectures & Tour Plan:

PLANTS - AGRICULTURE – **Chuck Schuster, UMD Extension Educator**, will explore the origin of food plants and food production, and will define problems and limiting factors as well as methods of sustainable food production.

LAND ECOLOGY – **Sara Via, UMD Professor & Extension Educator**, will talk about land types, their origins, characteristics and the life forms they sustain; land management and conservation; soil renewal and reclamation; and making cities more sustainable through urban land use planning.

COASTAL ZONE MANAGEMENT - **Heather Zindash**, “thesoulfulgardener” will talk about the value, use and functions of coastal zone eco-systems; stress factors and pollution problems in coastal areas; and management techniques.

GARDENING WITH NATURE – **Sara Via, UMD Professor & Extension Educator**, will talk about applying conservation principles, and understanding and respecting site limitations when landscaping home and public grounds. Other topics may include use of native plants,

avoiding invasives, composting, water conservation, IPM, etc.

### TOUR – TBD – visiting a local farm?

SOURCE REDUCTION OF POLLUTANTS, TOXICS AND MATERIALS – **Chuck Schuster, UMD Extension Educator** will delve into recapturing and recycling materials; identify possible sources and risk factors of toxins and diseases in the environment; explore techniques of pollution control; and describe some of the basic laws.

ENVIRONMENTAL SCIENCE - RESOURCES – **Fred Tutman, Patuxent Riverkeeper**, will discuss earth’s renewable and finite resources, and their distribution around the planet; how economic factors and population impact them; extraction techniques, such as fracking; and the importance of reducing, reusing, recycling, rebuying and rethinking.

CITIZEN SCIENCE/CITIZEN INVOLVEMENT – **Anne Goodman**, will talk about local citizen involvement projects.

MISUNDERSTOOD WILDLIFE – **Alonso Abugattas, Arlington County Naturalist** will explore and acknowledge the value of animals and organisms and their positive contributions to the web of life.

as of 1/15/2017

## ASSIGNED READING

*The National Gardener*: 4 issues/year;  
*Bringing Nature Home* – Doug Talamy;  
*And Living in the Environment* – G. Tyler Miller, Jr. 17th Edition: Chapters 1, 8, 12, 14, 21, 23 & 24.

If you have any edition other than the 17th Edition, please call or email Lydia Barbour for required chapters.

## SUPPLEMENTAL READING

A list is available. Call or email Lydia Barbour for this list.

## VOCABULARY

Agricultural Revolution, barrier islands, coastal zone, compost, deforestation, desertification, gene pool, grasslands, green revolution, IPM - integrated pest management, population size & carrying capacity, rangelands, resources-perpetual, renewable and nonrenewable, slash and burn agriculture, soil conservation, sustainable agricultural system, urban areas - microclimate, urban sprawl, wetland, Wilderness Act, Wildlife Restoration Act

**Please Note: ALL Exam Questions will be taken directly from the lectures.**

## DRESS CODE

Comfortable clothing and outer wear for the tour

**Breakfast & Registration begin at 8 AM each day. Day 1 ends at 4:30 PM and Day 2 ends after the exam. Breakfast and lunch are included both days.**

## CONTACTS FOR QUESTIONS

1. National Capital Area Garden Clubs  
Environmental Studies School Chairman Lydia Barbour at [lydiabarbour@hotmail.com](mailto:lydiabarbour@hotmail.com) or at 301 203 6696, or
2. Course Registrar, **Karen Lucas** at [Zehnerlucas@gmail.com](mailto:Zehnerlucas@gmail.com) or at 703 759 5547

## NATIONAL GARDEN CLUBS, INC.

**CONSERVATION PLEDGE:** "I pledge to protect and conserve the natural resources of the planet earth and promise to promote education so we may become caretakers of our air, water, forest, land, and wildlife."

## ABOUT THE COURSES

Environmental literacy is a learning process concerned with the inter-relationship within and between the various components of the natural and human-made world producing growth in the individual and leading to responsible stewardship of the earth.

The Living Earth Environmental Studies School is composed of a minimum of forty hours of study of specific units divided into four courses of ten hours, each of which includes a two-hour field trip.

- Course 1 - The Living Earth
- Course 2 - Land & Related Issues
- Course 3 - Air & Related Issues
- Course 4 - Water & Related Issues

ENVIRONMENTAL STUDIES  
SCHOOL

COURSE 2, SERIES VII  
THE LAND

April 20-21, 2017  
Agricultural History Farm Park  
18400 Muncaster Rd.  
Derwood, MD 20855



Presented and sponsored by  
National Capital Area Garden Clubs, Inc.  
Jo Sellers, President  
In cooperation with  
National Garden Clubs, Inc.  
Pat Rupiper, Environmental Studies Chairman