

**HOTEL INFORMATION  
furnished upon request.**

**DRIVING DIRECTIONS TO GOODELL  
GARDENS AND HOMESTEAD**

**FROM PITTSBURGH (1 hours 49 minutes)**

Take I-279 to I-79 N. toward Edinboro, PA. Follow I-79 N. to exit 166 (US 6N East). Turn right onto US 6N East and continue through 3 stoplights (approximately 3 miles). Goodell Gardens and Homestead is on the left shortly after the third stoplight.

**FROM BUFFALO (1 hour 57 minutes)**

Take I-90 W. to the I-79 interchange (exit 22A). Take I-79 S. to exit 166 (US 6N East). Turn left onto US 6N East and continue through 3 stoplights (approximately 3 miles). Goodell Gardens and Homestead is on the left shortly after the third stoplight.

**FROM CLEVELAND (1 hour 40 minutes)**

Take I-90 E. toward Erie, PA. Take exit 3 (US-6N, West Springfield, Cherry Hill) for 3.7 miles. Bear right onto US-6N East and continue for 20 miles. Once you reach Edinboro, Goodell Gardens and Homestead will be on the left shortly after the second stoplight.

**FROM JAMESTOWN, NY (1 hour 10 minutes)**

Take I-86 W to I-90 W. (exit 1A) toward Erie, PA. Go approximately 35 miles on I-90 W. to the I-79 interchange (exit 22A). Take I-79 S. to exit 166 (US 6N East). Turn left onto US 6N East and continue through 3 stoplights (approximately 3 miles). Goodell Gardens and Homestead is on the left shortly after the third stoplight.

**FROM MILLCREEK MALL (22 minutes)**

Take I-79 S. to exit 166 (US 6N East). Turn left onto US 6N East and continue through 3 stoplights (approximately 3 miles). Goodell Gardens and Homestead is on the left shortly after the third stoplight.

**“The Living Earth”**

**National Garden Clubs, Inc.**

**Environmental  
Studies School**

**Course III**

**May 16 & 17, 2008**

**Goodell Gardens and  
Homestead  
221 Waterford Street  
Edinboro, PA 16412**

**(814) 734-6699**



**Sponsored by  
Garden Club Federation of  
Pennsylvania and the Garden Clubs of  
District VIII**

**Environmental Studies Schools** are open to the public, garden club members, spouses, friends, and others interested in furthering their appreciation and understanding of our natural surroundings. There are four courses in the series. Each course can be taken in sequence or independently of the others. These courses may also be taken to retain the Environmental Consultant Accreditation earned previously.

In order to take the course for credit, the student must be an active member of a member club of the National Garden Clubs, Inc., or a non-member, who is in the process of becoming a member of a member club of NGC, Inc. The student must subscribe to *The National Gardener*, the NGC, Inc., magazine. Upon successful completion of the four courses and passing an open-book examination with a grade of 70 or better, the student will become a Nationally Accredited Environmental Consultant.

Garden Club members and non-members may attend the courses for personal growth and enrichment without taking the exam, but will be required to pay all fees and pre-registration for the course. Certificates of Achievement are available for non-credit students upon completion of each course.

The first two courses were held in 2007 with the remaining two courses continuing through the Fall of 2008.

**The fourth and final course in this series will be held at Pymatuning State Park near Jamestown, PA on September 26 & 27, 2008.**

**MISSION STATEMENT  
Teach environmental literacy to cherish,  
protect and conserve the living earth.**

**Environmental Studies School  
Course III  
Registration Form**

May 16 & 17, 2008

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

GARDEN CLUB AND DISTRICT: \_\_\_\_\_  
\_\_\_\_\_

**Make checks payable to:  
Environmental Studies School of Erie**

**Mail registration form and check to:  
Joyce Imel, Registrar  
22655 Yankee Hill Road  
Cambridge Springs, PA 16403-4765**

**(814)398-1414**

**E-mail – djimel@verizon.net**

**Full Course – with exam \$80.00   
(Lunches Friday & Saturday included)**

**Full Course – refresher \$80.00   
(Lunches Friday & Saturday included)**

**Full Course – without exam \$75.00   
(Lunches Friday & Saturday included)**

**TOTAL ENCLOSED**

**\$ \_\_\_\_\_**

**NO REFUND AFTER  
April 16, 2008**

**ATTACH  
National Gardener  
LABEL HERE**

**There will be a \$ 33.00 charge for returned checks.**

## INSTRUCTORS

**Dana Atwood** received his B.A. in 1998 and has an M.S. pending from Edinboro University. He has additional training in plant physiology and graduate level botany and is a certified Arborist. He is currently the Director of Goodell Gardens & Homestead.

**John Barlett** is a 1970 graduate from Parsons College with a degree in Philosophy. He has had additional training from the University of Maryland in Environmental Reporting. He is a Field Representative for Friends of Allegheny Wilderness and was a journalist with a specialty in environmental reporting for 37 years.

**Bill Dunagan** received his B.A. degree in Environmental Studies from the University of Edinboro in 2004. He is presently an Air Quality Specialist with the Department of Environmental Protection.

**Dr. Lew Lutton** received his undergraduate degree from Swarthmore College in 1968 and his Ph.D in Environmental Physiology from Cornell University in 1974. He is a retired Physiology Professor and Pre-health Advisor. Some of the courses he taught include: Neurobiology, Anatomy, Science and Religion, Bioethics and Animal Behavior.

**Kathleen Ryan** graduated from Edinboro University with a B.S. in Environmental Science/Biology in 2004. She has held workshops for DCNR, US Fish & Wildlife Services and the National Park Service. She currently works as an Environmental Education Specialist with the DCNR.

**Brenda Schmidt, CRP** graduated from Edinboro University with a B.A. in Environmental Studies in 1995. She received additional training as a Certified Recycling Profession and is currently the Recycling Coordinator for Crawford Co. Solid Waste Authority. She has lectured at numerous camps, clubs, organizations and classrooms for the past 20+ years.

**Jeanette L. Schnars** is a 2001 graduate of State University of New York, College of Buffalo with an M.A. in Biology. She will receive her Ph.D. in Wildlife and Fisheries Science from Penn State University in May 2008. She is presently Assistant Director of the Regional Science Consortium at the Tom Ridge Environmental Center.

**Dr. Bridget Stutchbury** received her Ph.D from Yale University in 1990. She did post-doctoral research with the Smithsonian Inst. in 1991 and is currently a Professor with the Biology Department at the York University in Toronto.

**Brian Winslow** is a 1985 graduate of Ohio University with a B.S. in Environmental Biology. He has been an environmental educator for 20 years and is currently the Director of Asbury Woods Nature Center, where he also coordinated the capital improvements on the new “green” Nature Center.

## ENVIRONMENTAL STUDIES

### SCHOOL - COURSE III

#### **Friday, May 16<sup>th</sup>, 2008**

8:00 a.m. Registration, Coffee and Refreshments  
Goodell Gardens and Homestead

8:30 a.m. **Environmental Science - Pollution**  
Brenda Schmidt, CRP

9:45 a.m. **Wildlife – Endangered Plants and Wildlife**  
Kathleen Ryan

11:00 p.m. **Environmental Ethics**  
Dr. Lew Lutton

12:00 p.m. Lunch

1:00 p.m. **Earth Stewardship – Material Sources and Citizen Education Programs**  
John Bartlett

2:00 – 4:00 p.m. **Field Trip – Goodell Gardens and Homestead**  
Dana Atwood, Director

#### **Saturday, May 17<sup>th</sup>, 2008**

8:00 a.m. Registration, Coffee and Refreshments  
Goodell Gardens and Homestead

8:15 a.m. **Initiating School Programs**  
Brian Winslow

9:30 a.m. **Plants – The Rain Forest**  
Jeanette Schnars

10:45 a.m. **Supplemental Subject – Songbirds and the Environment**  
Dr. Bridget Stutchbury

12:00 p.m. **Ecology – Air**  
Bill Dunagan

1:00-2:00 p.m. Lunch and Study Time

2:00-5:00 p.m. Exam

## COURSE REQUIREMENTS

### **Required Reading**

*The National Gardener* (1 year) 4 issues/year. A one year subscription is \$6.50. Order from Member Services at NGC, Inc. or call 1-800-550-6007 to subscribe.

*Living in the Environment* - G. Tyler Miller, Jr. is available from Member Services at NGC, Inc., ph. # 1-800-550-6007, Ext. 17, also on the internet or in bookstores. You will need the Seventh Edition or later.

**Seventh Edition** - Chapters 6, 10, 11, 21, 25, 26

**Eighth Edition** - Chapters 6, 10, 11, 22, 26, 27

**Tenth Edition** - Chapters 12, 14, 15, 16, 17, 28

**Eleventh Edition** - Chapters 15, 16, 18, 19, 24, 26, 29

**Twelfth Edition** - Chapters 1, 6, 15, 17, 18, 22, 26, 27, 28, Appendixes 5 & 6 for all Courses.

**Thirteenth Edition** - Chapters 6, 17, 18, 22, 27, 28  
Appendixes 1, 2, 3 and Glossary

**Fourteenth Edition** - Chapters 1, 2, 4, 5, 6, 8, 11, 12, 13, 14, 15, 17, 18, 29, 21, 22, 24, 25, 26, 27, 28  
Appendixes 2, 5, Glossary & CD-ROM

**Fifteenth Edition** - Chapters 1, 2, 3, 4, 5, 7, 11, 15, 19, 20, 22, 25, 26, Supplements 4, 5 & Glossary

### **Vocabulary List**

From *Living in the Environment*

acid deposition, fossil fuel, Aldo Leopold, global warming, anthropocentric, green house effect, atmosphere, oxygen cycle, biocentric photochemical smog, Clean Air Act, primary air pollutant, ecocentric, rain forest, epiphytes, Resource Conservation & Recovery Act, ethics, Superfund, extinction, thermal inversion, extractive reserves, threatened species, first law of ecology, wildlife management, weathering

### **Supplemental Reading list**

*Animals in Their Places*; Roger Caras

*Caring for the Earth*; United National Environmental Programme

*Constructing Sustainability*; Norton

*The Diversity of Life*; E. O. Wilson

*Earth, In the Balance*; Al Gore

*The Ecology*; Oden, Holt, Rinehard, and Winston

*The Ecology of Commerce*; Paul Hawken

*Environmental Choices: Practical Advice from the Union of Concerned Scientists*

*Environmental Conservation*; Dashman, Wiley

*A Fierce Green fire: The American Environmental Movement*; Shabecoff

*The Green Consumer*; Elkington, Hailes, Makower  
*The Global Ecology Handbook*; Global Tomorrow Coalition

*If You Love This Planet*; Helen Caldicott

*In Defense of Nature*; John Hay

*Insight - The Three R's of Ecology*; Martha Munzer

*The Land That Could Be: Environmentalism and Democracy in the Twenty-First Century*; Shukin

*Last Child in the Woods*; Richard Louv

*The Lorax*; Seuss

*Making Collaboration Work*; Wondolleck, Yaffe  
*A New Tropical Companion*; John Kircher (rain forest)

*Noah's Garden*; Sara Stein

*Outside Lies Magic: Regaining History and Awareness in Everyday Places*; Stilgoe

*Precious Heritage: The Status of Biodiversity in the United States*; Stem, Kutner, Adams

*The Quiet Crisis*; Stewart Udall

*A Sand County Almanac and Sketches Here and There*; Aldo Leopold

*Sense of Wonder*; Rachael Carson (to introduce children to nature)

*Silent Spring*; Rachael Carson

*Something New Under the Sun: An Environmental History of the Twentieth Century*; J. R. McNeill, W. w. Norton

*Teaching Kids to Love the Earth*; Marina Lechecki  
Herman, Joseph F. Passineau, Ann L. Schimpf, Paul Treuer

*Ten Minute Field Trips*; Helen Ross Russell

*The Theory of Environmental Policy*; Baumol, Oates  
*Water: A Natural History*; Outwater  
*Wilderness and the American Mind*; Nash

### **Environmental Studies School**

#### Co-chairmen:

Ginny Dodge

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