

FALL/WINTER 2007

NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

OCTOBER 2007 • VOLUME 1, NUMBER 1

THE COURSE CATALOG OF NEW ENGLAND WILD FLOWER SOCIETY



100+ COURSES, WORKSHOPS & FAMILY PROGRAMS

- Learn about native plants, gardening, and design
- Simple, sensuous, and sensible ideas for everyone
- Fall field trips, winter lectures, and more ...

highlights



WINTER HORTICULTURAL LECTURE SERIES

Join experts Jeff Lowenfels, Charles Mann, and William Cullina as they share their latest tips. Page 4.



100 NATIVE PLANTS FOR YOUR HOME LANDSCAPE

Surround yourself with the beauty and variety of our region. Page 7.



FREE DEMOS AT NASAMI FARM

Enjoy the fall foliage and learn about ornamental grasses, colorful plants, and the best ways to winterize your garden. Page 27.



THE NATURE OF BREAD

Explore the botany and history of the "Staff of Life." Page 15.



DESIGNING EDIBLE PLEASURE GARDENS

Plan a truly delicious garden. Page 11.



SHRUBS IN WINTER

Learn to I.D. native shrubs in their winter "undress." Page 15.



LIVE EACH SEASON AS IT PASSES;
BREATHE THE AIR, DRINK THE DRINK,
TASTE THE FRUIT, AND RESIGN YOURSELF
TO THE INFLUENCES OF EACH.



Henry David Thoreau (1817–1862)



Letter from the Director of Education

Shorter days, lower temperatures, and sharper light characterize the fall and winter. Although growing things are drifting into dormancy, dieback, and deciduous release of leaves, this is actually a great time to begin or continue your study of New England's native flora! From the gorgeous hues of autumn leaves and the last-minute glory of fall-blooming asters, to unmasked buds and bark, we have opportunities for closer examination, open views, and greater clarity. It's a time to get energized and fall in love with plants in a whole new way.

The courses, workshops, and field trips in this fall/winter catalog are only the latest in a continuum of native plant education programs offered by New England Wild Flower Society over the decades. Whether you are interested in conservation and restoration of natural areas, or in creating beautiful and diverse habitats for your home garden, we welcome you to a unique learning community—the thousands of people across our region advancing and sharing their knowledge of New England's precious native flora.

We'll see you in class!

Greg Lowenberg, Ph.D.
Education Director

welcome

EDITOR'S NOTE

Welcome to *Learn + Grow*—New England Wild Flower Society's new education catalog.

You'll find the rich learning opportunities—in botany, horticulture, conservation, the environment and more—that have informed and inspired generations of the Society's members and students for over a century. But with sharper focus and more detail, our new course catalog format makes our educational offerings even more inviting.

This streamlined catalog is the first of many updates to the Society's publications, both in print and online. In coming months look for a new magazine and Web site, as well as other exciting changes that will help the Society grow as a resource for you.

The changes go far beyond our new look, transforming the way we present information and express our mission to protect and conserve New England's native plants and their habitats. Your opinions and suggestions have assisted us through every step in the process and we are looking forward to hearing more from you.

Like the nature we defend and celebrate—which is always adapting to new conditions, new challenges, and new opportunities—we are looking forward.

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AT THE INTERSECTION OF CONSERVATION AND HORTICULTURE



New England Wild Flower Society offers the largest and most comprehensive public program of native plant education and information to be found anywhere. Whether you take a class, buy a plant, join as a member, or volunteer to help in our important work, you are supporting our efforts to protect New England's native plants and their habitats—our natural heritage. Members receive a discount on most course fees (see page 28).

CREDITS

Front cover *Aronia melanocarpa* (black chokeberry) William Cullina; p. ii Charles Mann, William Cullina, Lisa Mattei, Liz Linder, Tom Smarr, Gary Sloan; p. 1, 22 Gary Sloan; p. 3 Jeff Carmichael; p. 4 Charles Mann, Melissa Cullina; p. 5 Greg Lowenberg; p. 6, 11, 27 William Cullina; p. 9, 12, 17 *Sarracenia flava* (pitcher plant), 20 Tom Smarr; p. 16, 17, 19, 20, 22, 24 Lisa Mattei; p. 21 Charles Mann; p. 23 Jini Foster; p. 27 John Lynch

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Editor: Sarah Shonbrun

Questions? Comments? Contact
editor@newenglandWILD.org.

NEW TO NATIVE PLANTS? Not sure where to start? Contact us at 508-877-7630, ext. 3303, for custom recommendations to fit your interests. Remember, our courses are open to everyone.

certificate program

Native Plant Studies

New England Wild Flower Society's Certificate in Native Plant Studies offers dedicated students a comprehensive series of programs in the identification, cultivation, ecology, and conservation of North American plants. Participants proceed through the program at their own pace.

Students gain a greater appreciation and understanding of native plant habitats, common and rare species, conservation issues, and uses of native plants in horticulture and design. Certificate students engage in ongoing public and private efforts to preserve and restore native New England flora.

We offer four opportunities for concentrated study:

- 1) **Certificate in Field Botany**
- 2) **Advanced Certificate in Field Botany**
- 3) **Certificate in Native Plant Horticulture and Design**
- 4) **Advanced Certificate in Native Plant Horticulture and Design**

Each certificate requires completion of core courses, elective courses, field trips, and community service. Details below.

Certificate in Field Botany

Core Courses—6 required:

- Wildflowers of New England
- New England Native Shrubs
- Framework Trees of New England
- New England Plant Communities
- Botanic Inventory Methods
- Introduction to Plant Families
- Field Identification Techniques
- Plant Form & Function

Electives—choose 4

Botanical Field Trips—choose 5

Native Plant Community Service—at least 15 hours of documented service:

- as a Plant Conservation Volunteer (PCV)
- as an Invasive Plant Atlas of New England (IPANE) volunteer
- as a New England Wild Flower Society Sanctuary volunteer, or
- on a local service project of your choice

Certificate in Native Plant Horticulture & Design

Core Courses—6 required:

- Wildflowers of New England
- New England Native Shrubs
- Native Herbaceous Plants I & II
- Native Woody Plant Materials
- Horticultural Techniques
- Residential Landscape Design
- Plant Form & Function

Electives—choose 4

Horticultural & Design Field Trips—choose 5

Native Plant Community Service—at least 15 hours of documented service:

- as a volunteer at Garden in the Woods
- as a volunteer at Nasami Farm, or
- on a local service project of your choice



ENROLL NOW!

Complete the certificate registration form on page 29 of this catalog or online at www.newenglandWILD.org. Direct questions to Registrar at 508-877-7630, ext. 3303, or lreed@newenglandWILD.org. There is a one-time certificate enrollment fee of \$30.

Classes in this catalog are open to all adults, regardless of certificate enrollment. Society members receive a discount (see page 28).

Why Study Native Plants?

Certificate Program Orientation

Join Greg Lowenberg, Education Director of New England Wild Flower Society, for an illustrated talk that will include some of the fascinating stories that native plants have to tell, along with a description of the Society's efforts to conserve native flora, and why it is important to "learn the wildflowers." Greg will explain the Society's Certificate in Native Plant Studies program and answer your questions.

Everyone is welcome at these FREE presentations. Preregistration is requested, but not required. To register, see page 29.

Wednesday, September 19, 7–9 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Saturday, January 12 (for times, contact lreed@newenglandWILD.org or 508-877-7630, ext. 3303)

Rhode Island Wild Plant Society General Meeting, North Kingston Free Library, Wickford, RI

Course Code: CER8004

CERTIFICATE CREDIT DESIGNATIONS

FB=Field Botany; **Adv. FB** = Advanced Field Botany

HD=Native Plant Horticulture & Design; **Adv. HD**=Advanced Native Plant Horticulture & Design

Some courses satisfy more than one requirement: Elective-FB; Core-Adv. FB can be used as an elective for a certificate in Field Botany or as a Core requirement for a certificate in Advanced Field Botany.

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VISIT CHINA with the Society in 2008.
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DON'T MISS Ecological Landscaping
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CELEBRATE TRILLIUMS with the experts at
Mt. Cuba Center, DE, on page 11.

2008 Winter Horticultural Lecture Series

Begin your 2008 season of gardening with three provocative lectures from the 13th annual Winter Horticultural Lecture Series, cosponsored with Arnold Arboretum of Harvard University, Massachusetts Horticultural Society, Tower Hill Botanic Garden, and Wellesley College Friends of Horticulture. All lectures take place at the Massachusetts Horticultural Society's Elm Bank Horticultural Center in Wellesley, Massachusetts. The fee for each lecture is \$20 for members of the sponsoring institutions and \$25 for non-members. Each lecture will be followed by refreshments and a book signing.

TEAMING WITH MICROBES: THE GARDENER'S GUIDE TO THE SOIL FOOD WEB

Jeff Lowenfels

Thursday, January 31, 7–8:30 p.m.

Course Code: LEC2033

No one ever fertilized the redwood forests. So how did those trees grow to 350 feet and live for over 500 years without applications of Magic-Miracle-Fertilizer? You can begin to understand how by attending this entertaining lecture by Jeff Lowenfels, the "Al Gore of Gardening." Jeff will present the basics of chemical-free gardening, which rely on making use of microbial activity in the soil. He will explain how soil microbes work, what you can do to encourage them, and how they might afford you more leisure time in your garden. Learn the science that explains why chemicals and gardening don't mix.

Jeff Lowenfels is the author of Timber Press's best seller, *Teaming with Microbes: A Gardener's Guide to the Soil Food Web*. Former president of the Garden Writers of America, Jeff hosted Alaska public television's most popular show, *Alaska Gardens with Jeff Lowenfels*. The show ran four times a week and was even broadcast in Barrow, Alaska, way above the Arctic Circle. Today, Jeff has a radio show, *The Garden Party*, where he is known as "The Germinator."



THE GARDENS OF KYOTO

Charles Mann

Thursday, February 14, 7–8:30 p.m.

Course Code: LEC2034

With their deceptively simple lines, spare plantings, and muted colors, the gardens of Kyoto, Japan, seem the polar opposite of traditional English flower gardens. Yet for many Westerners, their style and tradition are as evocative as any English border. What makes Japanese gardens such profoundly contemplative spaces? What can we draw from them to balance our Anglo-centric gardening tendencies and enrich our personal spaces? Join professional photographer, world traveler, and cultural connoisseur Charles Mann for a stunning visual tour of the gardens of Kyoto and a discussion sure to transcend traditional barriers of language, culture, and garden philosophy.



Charles Mann is a freelance and stock photographer, specializing in imagery of gardens and horticulture, and southwestern scenic landscapes. His photographs have illustrated three books, including *Cutting Edge Gardening in the Intermountain West*, written by Marcia Tatroe. His work appears regularly in many magazines, including *Horticulture*, *Sunset*, *Fine Gardening*, and *Better Homes and Gardens*. Charles has published photo essays on Japan, New Zealand, Italy, Majorca, Ireland, Alaska, and most major cities in the western United States.



FROM EMERALD CARPET TO AMBER WAVE: SERENE AND SENSUOUS PLANTS FOR THE GARDEN

William Cullina

Thursday, February 28, 7–8:30 p.m.

Course Code: LEC2035

Gardens are fusions of form, color, and texture. While these three elements act in concert to affect space, mood, and impression, gardeners tend to focus primarily on color. Yet texture and form are the more enduring, and perhaps, more complex of the three. In this presentation, Bill Cullina will introduce some of his favorite native ferns, grasses, and sedges. Just as in nature, where they knit together the canvas of forest floor, boggy carpet, or rustling prairie, these plants can do the same for your garden, providing soft, tangible grace, subtle yet captivating when you truly stop to see.

William Cullina is Director of Horticultural Research for New England Wild Flower Society and an award-winning author of many classic reference books, including *The New England Wild Flower Society's Guide to Growing and Propagating Wildflowers*, *Understanding Orchids*, and the soon-to-be-published *Native Ferns, Moss, and Grasses*.

free programs

Fall Lecture Series at Garden in the Woods

..... SIZING UP INVASIVES: PRACTICAL APPROACHES TO LANDSCAPE RESTORATION

The seemingly ubiquitous presence of invasive plants across the landscape of the Northeast presents many questions: Which populations should we prioritize for control efforts, and what reasonable goals can we establish? When is it better to look the other way and refocus elsewhere? What steps can we take to stop the “Wildlife Express”—the spread of invasive plants by birds and other berry-eating animals? Botanist Marty Michener will discuss functional aspects of invasive control strategies and present case studies that illustrate some effective techniques.

Thursday, October 11, 7–9 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT5124

Marty Michener is author of two CD-ROM books: *Graminoids: A Guide to Some Common Grasses, Sedges, and Rushes of the Northeastern USA*, and *Botany Everywhere: A Photographic Guide to Over 1,200 Vascular Plants of the Northeast*.

Details: Preregistration is encouraged, but not required. Refreshments and a book signing will follow this free seminar.

..... HAPPY BIRTHDAY, LINNAEUS!

The year 2007 is the 300th anniversary of the birth of Carolus Linnaeus, the Swedish botanist, physician, and zoologist who laid the foundations for the modern scheme of nomenclature. Known as the “father of modern taxonomy,” he was the most renowned botanist of his time. Join longtime “Linnaeus lover” Sally Wadman for an illustrated botanical journey to Sweden to learn more about the man and the plants he named. Sally will highlight Sweden’s provincial plants (like our state flowers), most of which were named by Linnaeus, and will draw comparisons to the New England flora, where many of the same plants occur. Join this brown bag lunch talk, and decide for yourself if our region is botanically more akin to Sweden than it is to England!

Wednesday, November 7, 12–1:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT8305

Sally Wadman is an amateur botanist who has traveled extensively in Sweden.

Details: Preregistration for this free talk is encouraged, but not required. Please bring a bag lunch to enjoy during the lecture. Coffee and refreshments will be served.

..... AN INSIDE LOOK AT THE FLORA OF THE NORTHEAST

Join botanist Dennis Magee for a lecture about his collaboration with the late Harry Ahles to produce the newly released *Flora of the Northeast* (2nd edition), the most recent comprehensive regional flora to be published in the United States. Dennis will discuss how he built the plant identification keys and prepared descriptions, distribution maps, and illustrations. Learn how the authors dealt with difficult groups of plants, and handled current and past plant names. Dennis will share some good stories and describe some of the strengths and shortcomings of this new resource for New England plant enthusiasts.

Sunday, December 2, 2–3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2405

Dennis Magee is coauthor of the newly revised *Flora of the Northeast* and vice-president of Normandeau Associates, an environmental consulting firm based in Bedford, New Hampshire.

Details: Preregistration for this free talk is encouraged, but not required. Refreshments and a book signing will follow the talk.

travel programs

BACKROADS CHINA

April 18–May 7, 2008

Nestled in southwestern China is the most scenic and culturally rich area of the country—Yunnan Province. Yunnan’s flora and landscapes are both diverse and spectacular, and scientists believe the world’s azaleas evolved here. Ted Elliman, New England Wild Flower Society’s Vegetation Management Coordinator, is our guide through this magical land, coinciding with peak spring bloom.

Ted has two decades of experience in southwestern China, and led our first China trip in 2002.

Despite rapid modernization, Yunnan still possesses delightful backroads and fascinating cultures to discover, including the part of the Tibetan Plateau now known as “Shangri-La.” The trip will take us from remote Himalayan border regions to tropical sites like Elephant Valley and the Tropical Botanical Garden at Xishuanbanna.



City of Dali

Trip fee is \$3,845 plus air fare. A trip extension to Angkor Wat in Cambodia is also available. Please contact the Registrar at 508-877-7630, ext. 3303, for a brochure with full details and itinerary, or call Betchart Expeditions, Inc. at 800-252-4910.

free programs

Fall Lecture Series at Conway School

New England Wild Flower Society is pleased to cosponsor the second annual fall lecture series with the Conway School of Landscape Design. Talks will be held at the Conway School in Conway, Massachusetts. Space is limited, and participants are encouraged to preregister by calling 413-369-4044, ext. 5. Check www.newenglandWILD.org for directions.



BREAKING THE RULES: CREATING NATURAL LAND- SCAPES IN THE REAL WORLD

Observing how plants develop in nature can lead us to a host of new gardening techniques, a surprising number of which are diametrically opposed to traditional horticultural practice. From choosing, arranging, and spacing plants, to the simple act of weeding, Larry Weaner will show how alternative approaches can yield more easily maintained gardens that express the rich beauty of our native landscapes.

Monday, September 17, 7–8:30 p.m.

Larry Weaner is principal of Larry Weaner Landscape Design Associates, a design, consulting, and installation firm for residential, commercial, and public clients since 1982. Larry is active as a guest lecturer and instructor for numerous horticultural and environmental organizations throughout the United States, and his projects have been featured in national and international publications. In 1990, Larry developed the New Directions in the American Landscape conference series, which has a dedicated following among professionals in the design and landscaping community.

CUES TO CARE: THOUGHT- FUL WAYS TO DESIGN AND PRESENT MESSY ECOSYSTEMS

How do we retrofit nineteenth-century cities and twentieth-century suburbs to improve their ecological health? Join Joan Nassauer to learn how understanding changing perceptions of alternative landscapes of the future can help us to design more ecological landscapes today, whether the goal is storm water management, brownfield redevelopment, or more-sustainable residential properties.

Wednesday, October 17, 7–8:30 p.m.

Joan Iverson Nassauer is Professor of Landscape Architecture at the University of Michigan. Her award-winning work focuses on the relationship between aesthetics and ecology, and she has offered strategies for basing ecological design on strong science and interdisciplinary collaboration, both in the U.S. and internationally. Her book, *Placing Nature: Culture and Landscape Ecology* (1997), defines cultural sustainability for ecological design, and her new book with Mary Santelmann and Don Scavia, *From the Corn Belt to the Gulf* (2007), discusses how alternative practices could improve the biodiversity of agricultural landscapes and the water quality of the Gulf of Mexico.

NATIVE PLANTS FOR SUSTAINABLE LANDSCAPES

Can our landscapes be producers of clean water and air, biodiversity, beauty, and a sense of place? What do native plants offer in accomplishing those lofty goals that other plants don't? Dale Hendricks will explore these questions and present a selection of mid-Atlantic and New England natives and cultivars that can help bring about these verdant landscapes.

Thursday, November 1, 7–8:30 p.m.

Dale Hendricks is co-owner and founder of North Creek Nurseries in Landenberg, Pennsylvania. North Creek is a propagation nursery supplying eastern North American natives and cultivars to wholesale and retail nurseries, as well as for highway, municipal, and conservation restoration projects. Dale has focused on propagating native perennials, grasses, and ferns for more than twenty years.

horticulture & gardening

PLANT YOUR TREES RIGHT THE FIRST TIME

Fall is a great time to put in those trees and shrubs you've been dreaming about. Join botanist Greg Lowenberg to learn the best way to plant balled and burlapped or containerized trees and shrubs. This workshop is valuable for landscapers, home gardeners, and even those who hire others to do their planting, as landscape professionals frequently make crucial errors. In this hands-on workshop and demonstration with live material, you will learn the proper way to prepare the site, unpack plant material, plant, mulch, and give aftercare. It's not more difficult to plant correctly, so give your woody plants the best chance to thrive well into the future.

Tuesday, September 18, 5:45–7:45 p.m.

Cambridge Center for Adult Education,
Cambridge, MA

Course Code: HOR3016

Instructor: Greg Lowenberg

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective—all certificates

FOR THE BIRDS: PREPARING THE WINTER GARDEN

Fall is a wonderful time to be in the garden and a great time for planting and transplanting. Learn about plants that enhance the fall landscape as well as those that provide migratory food for birds heading south and food and shelter for those that overwinter here. Methods of dividing plants and preparing the garden for winter will be demonstrated. Robin Wilkerson has two acres of vegetable and perennial gardens and a woodland garden of native plants, and she will provide divisions and seedlings to take home for your own gardens. While it is daunting to think about saving the world, we, as gardeners, can work to restore our small corner of the planet to ecological health. Cosponsored with Massachusetts Audubon's Drumlin Farm.

Sunday, September 23, 1:30–4 p.m.

Drumlin Farm Nature Center, Lincoln, MA

Instructor: Robin Wilkerson

Course Code: HOR4233

Fee: \$22M/\$26NM

Credit: Elective—HD or FB

DESIGN AND PLANT A NATIVE MIXED BORDER IN THE FALL

In this two-part course, you will learn how to take advantage of the ideal fall planting conditions to establish borders, beds, and larger gardens filled with native perennials, shrubs, vines, and trees. Horticulturist and designer Liz Krieg will discuss ways to mix a variety of plants to create beautiful combinations that not only look great, but are useful for wildlife. Fall bargains abound in the nurseries, and this is an ideal opportunity to coordinate your perennials with hardy bulbs. This illustrated program includes a focus on planting design, native plants that work in a variety of garden situations, soil preparation, and low-maintenance tips to ensure success for your new garden. Cosponsored with Montshire Museum of Science.

Tuesdays, September 25, October 2, 7–9 p.m.

Montshire Museum of Science, Norwich, VT

Course Code: HOR1517

Instructor: Liz Krieg

Fee: \$48M/\$56NM

Limit: 20 **Credit:** Elective—all certificates

REJUVENATE YOUR FOUNDATION PLANTINGS WITH NATIVES

Foundation plantings can emphasize your urban or suburban home's best features ... or not! Whether you are starting from scratch or working with what is already there, this seminar will address how to rejuvenate your overgrown, underplanted, or tired-looking foundation, and use plants to their best advantage. Landscape designer Laura Eisener will introduce native shrubs and perennials to add color, structure, and texture, as well as help reduce maintenance chores.

Choose one of two sections.

Tuesday, September 25, 6–8 p.m.

Cambridge Center for Adult Education,
Cambridge, MA

Course Code: HOR4505

Instructor: Laura Eisener

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective—all certificates

REJUVENATE (continued)

Tuesday, October 2, 7–9 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4506

Instructor: Laura Eisener

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective—all certificates

100 NATIVE PLANTS FOR YOUR HOME LANDSCAPE

Bring the beauty, vibrancy, and hardiness of nature's own creations into every corner of your home landscape. This workshop will present the many native trees, shrubs, flowers, and ferns that grow naturally in New England. Sue Reed, a landscape architect with two decades of experience in designing with native plants, will illustrate and explain each plant's typical characteristics and habits. The plants will be shown both in their wild locales, where they form interconnected communities with other plants and animals, and in various home garden settings. Through interactive discussions and design exercises, participants will learn how to incorporate native plants into their own landscapes.

Choose one of 3 sections.

Saturday, September 29, 10 a.m.–4 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1800

Instructor: Sue Reed

Fee: \$75M/\$85NM

Limit: 15 **Credit:** Elective—all certificates

Thursdays, March 13, 20, 27, 6:30–8:30 p.m.

Hitchcock Center for the Environment,
Amherst, MA

Course Code: HOR1801

Instructor: Sue Reed

Fee: \$75M/\$85NM

Limit: 15 **Credit:** Elective—all certificates

Saturday, March 15, 10 a.m.–4 p.m.

Yale Peabody/Marsh Botanic Garden, New Haven, CT

Course Code: HOR1802

Instructor: Sue Reed

Fee: \$75M/\$85NM

Limit: 15 **Credit:** Elective—all certificates

horticulture & gardening

FALL PLANTING AND WINTER CARE OF TREES AND SHRUBS

Early fall is the preferred time to plant many trees and shrubs. Learn how from an International Society of Arboriculture-certified arborist, including which trees and shrubs to plant at this time of year and what you can do to help your woody plants survive the winter. Discussion will cover planting techniques, proper watering schedules, and winter protection for your plants. Cosponsored with Arnold Arboretum of Harvard University.

Saturday, September 29, 10 a.m.–12 noon

Dana Greenhouses, Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR3020

Instructor: Jen Kettell

Fee: \$25M/\$30NM

Limit: 16 **Credit:** Elective-HD

KICK THE HABIT: CHEMICAL-FREE LAWNS

Perfect lawns are often treated with an arsenal of chemicals. But at whose expense? Yours? Your children's? Your pet's? Paul Tukey answers "yes" to all three. But he follows his response with great information on how you can kick the chemical habit and turn your lawn into an ecosystem teeming with life. As the founder of SafeLawns, Paul is touring the country to convince landscapers and home gardeners alike that lawns can be lush and chemical-free. Come hear Paul's message and learn organic lawn care methods that you can put to use this fall. Your health depends on it. His book, *The Organic Lawn Care Manual* (Storey Books, 2007), will be available for purchase and signing. Cosponsored with Arnold Arboretum of Harvard University.

Wednesday, October 3, 7–8:30 p.m.

Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR3909

Instructor: Paul Tukey

Fee: \$15M/\$20NM

Credit: Elective-HD/Adv. HD

DESIGN A NATIVE MIXED BORDER GARDEN

Learn how to artfully combine shrubs and small trees with a selection of perennial and annual herbaceous plants to create a border garden with four seasons of beauty. Horticulturist and landscape designer Laura Eisener will illustrate basic design principles you can apply to planning and planting a mixed border of any size and shape. Also covered will be a range of native North American plants that thrive in borders. Along with plant attributes and drawbacks, Laura will talk about those "difficult" areas where your plants never seem to thrive and discuss which plants will do well there.

Choose one of two sections.

Tuesday, October 9, 6–8 p.m.

Cambridge Center for Adult Education, Cambridge, MA

Course Code: HOR1515

Instructor: Laura Eisener

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective—all certificates

Saturday, October 13, 1–3 p.m.

Coastal Maine Botanical Gardens, Boothbay, ME

Course Code: HOR1516

Instructor: Laura Eisener

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective—all certificates

HORTICULTURAL TECHNIQUES

Good horticultural practices form the backbone of any successful garden. Understanding how to apply the basics of plant care is the essential first step to becoming a horticulturist. In this three-session course we will discuss how to properly select and install native plant material and choose the right plant for the right place. We will practice proper techniques in transplanting woody and herbaceous plant material. Correct methods of preparing soil, mulching, watering, and maintaining your plants will be explained. Proper pruning techniques will be addressed and demonstrated. We will wrap up with winterizing gardens and then discuss how to prepare for the coming spring.

HORTICULTURAL TECHNIQUES (continued)

Choose one of two sections.

Saturdays, October 13, 20, 27, 9:30 a.m.–2:30 p.m.

Garden in the Woods, Framingham, MA

Instructors: Scott LaFleur and Rolf Schilling

Course Code: HOR3600

Fee: \$180M/\$210NM

Limit: 16 **Credit:** Core-HD

Saturdays, October 13, 20, November 3, 8:30 a.m.–1:30 p.m.

Marsh Botanic Garden, New Haven, CT

Course Code: HOR3606

Instructor: Eric Larson

Fee: \$180M/\$210NM

Limit: 16 **Credit:** Core-HD

PROPAGATING TREES AND SHRUBS FROM CUTTINGS AND SEEDS

Need to nurture? Then join longtime Arnold Arboretum propagator Jack Alexander and learn basic information and techniques for propagating most woody plants. The first session includes a workshop on seed propagation and construction of a propagation case. The second session features a workshop on hardwood cuttings. You will leave class with numerous cuttings and seeds. You must sign an assumption-of-risk-and-release form in order to practice the techniques taught in class. Bring lunch and a beverage. You will be collecting propagules from the Arboretum grounds on both afternoons, regardless of weather, so dress accordingly, and wear comfortable shoes. Cosponsored with Arnold Arboretum of Harvard University.

Saturdays, October 13, 27, 9 a.m.–4 p.m.

Dana Greenhouses, Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR3080

Instructor: Jack Alexander

Fee: \$180M/\$215NM

Limit: 14 **Credit:** Elective-HD/Adv. HD

NATIVE PLANT NEWBIES

Create a backyard full of beauty and wildlife. "100 Native Plants for Your Home Landscape." See page 7.

horticulture & gardening



PRUNING FUNDAMENTALS

After leaf drop, the form and architecture of trees and shrubs are readily visible, making late fall or winter a good time to prune most species. Proper pruning involves understanding how plants grow and how they respond to pruning. The instructor will demonstrate the selection of basic tools, how to make a proper cut, and which branches to cut, and discuss the correct time to prune for different species. Students will try various cuts. The workshop's focus will be on common shrubs and trees in the residential landscape, and techniques to improve the plants' health and aesthetics. Bring a hand pruner and pruning saw (if you own one) for a hands-on experience.

Choose one of two sections.

Saturday, October 13, 10 a.m.–1 p.m.

Montshire Museum of Science, Norwich, VT

Course Code: HOR3124

Instructor: Liz Krieg

Fee: \$33M/\$40NM

Limit: 15 **Credit:** Elective—all certificates

Saturday, November 17, 9:30 a.m.–12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3111

Instructor: Rolf Briggs

Fee: \$33M/\$40NM

Limit: 15 **Credit:** Elective—all certificates

ASSESSING TREE HEALTH AND STRUCTURE

Proper tree care requires assessment of the entire tree system from roots to shoots. Learn how to assess a tree's health and structure with techniques used by professional arborists. Most trees possess some structural defects. Learn which compromise the integrity of the tree and require attention, and which are merely aesthetic concerns. It's important to assess foliage, twig growth, and the presence of pathogens and diseases periodically. A classroom session covering tree physiology and site conditions that relate to tree health will be followed by a field session at Garden in the Woods to look at a variety of trees. This seminar is appropriate for landscape care professionals as well as property owners who want to know what they can attempt on their own and when to call a professional arborist. Cosponsored with the Arnold Arboretum of Harvard University.

Saturday, October 20, 9:30 a.m.–12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR3400

Instructor: Dave Ropes

Fee: \$30M/\$36NM

Limit: 20 **Credit:** Elective—all certificates

THE ECOLOGICAL HOME LANDSCAPE: HOW TO MAKE YOUR PROPERTY MORE HEALTHY AND LIVABLE

Your landscape should welcome you home and support the life you wish to live, while at the same time contributing to the health and vitality of the natural world. This workshop provides concepts, guidelines, and practical tips to help you make your home landscape more energy efficient, ecologically diverse, environmentally healthy, and personally satisfying. Based on 20 years of experience in ecological landscape design, Sue Reed's illustrated presentations and discussions will focus on how ecological concepts may be applied in home landscapes. Participants should bring several photos and/or maps of their home and property.

ECOLOGICAL HOME LANDSCAPE (continued)

Choose one of two sections.

Saturdays, October 27, November 3, 9 a.m.–3:30 p.m.

Hitchcock Center for the Environment, Amherst, MA

Course Code: HOR4250

Instructor: Sue Reed

Fee: \$160M/\$190NM

Limit: 15 **Credit:** Elective—all certificates

Fridays, November 2, 9, 10 a.m.–4:30 p.m.

Marsh Botanic Garden, New Haven, CT

Course Code: HOR4251

Instructor: Sue Reed

Fee: \$160M/\$190NM

Limit: 15 **Credit:** Elective—all certificates

USING PLUGS TO ESTABLISH MEADOWS AND NATIVE GROUNDCOVERS

Plugs offer an exciting alternative to direct seeding or expensive container-grown plants for quick establishment in landscapes. Especially useful in groundcover and meadow installations, the increasing availability of native plants as plugs makes it possible to establish larger plantings in a variety of habitat types. Join nurseryman Dale Hendricks for an in-depth seminar covering plant selection and establishment techniques, and how to order and hold plant material. A discussion will feature economic considerations and tradeoffs between the various sizes available, while demystifying some of the lingo. This seminar is appropriate for landscape designers and contractors, as well as ambitious gardeners.

Friday, November 2, 10 a.m.–2 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4306

Instructor: Dale Hendricks

Fee: \$60M/\$72NM, including coffee and snacks. Bring a bag lunch or order a box lunch for \$12 with registration.

Credit: Elective—HD; Core—Adv. HD

KICK THE HABIT

Convert your lawn to a chemical-free ecosystem. See page 8.

horticulture & gardening

THE TRANSPORTABLE GARDEN

Gardening in containers can be an excellent solution to many garden challenges, whether you have plenty of outdoor space or none at all. Using container plants indoors and out expands gardening possibilities and can solve many of the problems of weather, soil, sun, or shade that may prevent us from growing the plants we want. Container gardens are great focal points on steps, porches, and patios, or at strategic points in the outdoor garden. Landscape designer Laura Eisener will show inspiring examples and discuss how to select plant companions for more interesting container gardens, as well as planting and maintenance tips appropriate for your house, condo, or apartment. Handouts will be provided. Cosponsored with the Cambridge Center for Adult Education.

Tuesday, January 22, 6–8 p.m.

Cambridge Center for Adult Education,
Cambridge, MA

Course Code: HOR2955

Instructor: Laura Eisener

Fee: \$25M/\$30NM

Limit: 20 **Credit:** Elective–HD/Adv. HD

RESIDENTIAL LANDSCAPE DESIGN

In this multi-session course appropriate for beginners, you will be introduced to the landscape design process with special emphasis placed on native plants in the residential landscape. Workshop sessions will focus on design methods using site analysis techniques and schematic design tools. In consultation with the instructor, you will work on a project of your own choosing. Interspersed with design work will be lectures focused on plants and habitats, including information on plant choice and placement in the landscape. Required materials: 11" x 17" quadrille graph paper, 12" x 18" tracing paper, and a ruler and pencil.

Choose one of three sections.

**Saturdays, January 26, February 2, 9,
10 a.m.–4 p.m.**

The Fells, Newbury, NH

Course Code: HOR4008

Instructor: Liz Krieg

Fee: \$175M/\$210NM

Limit: 12 **Credit:** Core–HD

RESIDENTIAL DESIGN (continued)

**Tuesdays, February 5, 12, 19, 26, March 4, 11,
18, 5:45–7:45 p.m.**

Cambridge Center for Adult Education,
Cambridge, MA

Course Code: HOR4002

Instructor: Karen Sebastian

Fee: \$175M/\$210NM

Limit: 12 **Credit:** Core–HD

**Tuesdays, February 26, March 4, 11, 18, 25,
April 1, 8, 7–9:15 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR4000

Instructor: Laura Eisener

Fee: \$175M/\$210NM

Limit: 12 **Credit:** Core–HD

TEAMING WITH MICROBES FOR THE PROFESSIONAL: COMPOST AND COMPOST TEA

As organic land care sweeps the nation, compost and aerated compost teas are taking the place of Peter's™ and Miracle-Gro™ in the professional's toolbox for fertility management. Join Jeff Lowenfels, a leader in the soil food-web movement, to understand what is behind this change in how your customers want to garden. The latest practices offer tremendous opportunities for green professionals. In this interactive seminar, Jeff will explain how to create and apply compost and compost teas to build plant health, outcompete disease organisms, and encourage beneficial soil organisms. Experienced gardeners and green industry professionals are encouraged to attend this seminar. Bring your lunch and join an informal discussion with the instructor following the seminar. Drinks and desserts are included in the fee.

Friday, February 1, 9 a.m.–12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR3920

Instructor: Jeff Lowenfels

Fee: \$50M/\$60NM

Credit: Elective–HD; Core–Adv. HD

GRAFTING TECHNIQUES FOR ORNAMENTAL TREES

Grafting is the technique of joining parts of plants in such a manner that they unite and continue their growth as one plant. It is sometimes the most practical propagation method for the hobbyist since it does not require special conditions or equipment. This workshop will teach methods of grafting and offer practice in making graft unions from actual plant material. You will graft both deciduous and evergreen trees and shrubs. The plants may include two- or five-needled pines and crab apples. If you own pruning shears or a grafting knife, please bring them to class. You must sign an assumption-of-risk-and-release form in order to practice the techniques taught in class. Cosponsored with Arnold Arboretum of Harvard University.

Saturday, February 2, 9 a.m.–4 p.m.

Dana Greenhouses, Arnold Arboretum,
Jamaica Plain, MA

Course Code: HOR3076

Instructor: Jack Alexander

Fee: \$90M/\$110NM

Limit: 14 **Credit:** Elective–HD/Adv. HD

DON'T MISS!

Ecological Landscaping Association's 14th annual WINTER CONFERENCE AND ECO-MARKETPLACE

Thursday–Saturday, March 6–8, 2008
MassMutual Center
1277 Main Street, Springfield, MA

Thursday Night Dinner Keynote:
JOHN TODD, cofounder of New Alchemy Institute & Ocean Arks International

For more information, visit www.ecolandscaping.org. To register, call the New England Wild Flower Society Registrar at 508-877-7630, ext. 3303.

Cohosted by New England Wild Flower Society and University of Rhode Island's Cooperative Extension Education Center.

horticulture & gardening

DESIGNING EDIBLE PLEASURE GARDENS

Bring the local food movement home! Whether you have a tiny plot or many acres, incorporating edible plants into your existing garden is a beautiful way to start growing your own food. This seminar will focus on designs that are both edible and aesthetic, while conveying techniques for success, such as partner planting, proper rotation, organic fertilization, weeding, and mulching. Plants for the beginner and intermediate gardener—including many native species—will be discussed, along with each plant's unique edible or medicinal properties. The seminar will also delve into the pleasures of edible flowers, while keeping an overarching eye on design.

Saturday, March 29, 10 a.m.–1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR6016

Instructor: Natalie DeNormandie

Fee: \$33M/\$40NM

Limit: 20 **Credit:** Elective–HD/Adv. HD

FOUR SEASONS OF COLOR IN THE GARDEN

Although homeowners often rush to buy whatever is in flower at the garden center, it is the shape of plants, and their foliage, bark, and berries, that carries the garden through our varied New England seasons. Successful gardens are tapestries of herbaceous plants, vines, trees, and shrubs woven together by the color, structure, and texture of their foliage. Garden enthusiast and plant connoisseur Ellen Lathi will talk about the use of bold, colorful, and variegated foliage in her four-season Needham, Massachusetts, garden—a favorite stop on local garden tours—where flowers are used only as accents rather than the main course.

Friday, April 4, 3–4 p.m.

Wellesley College Botanic Gardens Visitor Center, Wellesley, MA

Course Code: HOR4907

Instructor: Ellen Lathi

Fee: \$12M/\$15NM

CELEBRATE TRILLIUMS

Join the world's leading trillium experts to discover and share unique scientific, conservation, and gardening knowledge about these magnificent woodland treasures. New England Wild Flower Society is pleased to cosponsor the event.

TRILLIUM SYMPOSIUM

April 17–19, 2008
Mt. Cuba Center
Wilmington, DE



Visit www.trilliumsymposium2008.org for more information.

UNDERSTANDING AND GROWING LADY-SLIPPER ORCHIDS

There are few wildflowers as beloved and mysterious as the lady-slippers. Their rarity, elegance, and difficult propagation give them an air of inaccessibility that is somewhat undeserved. Join renowned plantsman William Cullina to discuss their amazing biology and use current research to help dispel some of the myths regarding fungus associations and parasitism. Bill will show examples of modern lab techniques for raising seedlings that are making the plants available to gardeners like never before. We will also cover some cultivation tips for growing several species in the garden. Finally, each participant will have the opportunity to take home either a mature large yellow or a showy lady-slipper, as well as a lab-grown Kentucky lady-slipper seedling to nurture into bloom.

Choose one of two sections.

Friday, April 4, 1–3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2070

Instructor: William Cullina

Fee: \$75M/\$85NM (includes all materials)

Limit: 20 **Credit:** Elective—all certificates

Tuesday, April 8, 2–4 p.m.

New Canaan Nature Center, New Canaan, CT

Course Code: HOR2071

Instructor: William Cullina

Fee: \$75M/\$85NM (includes all materials)

Limit: 20 **Credit:** Elective—all certificates

PRUNING SHRUBS WITH THE PROS

Early spring is an excellent time to prune many woody plants. In this hands-on workshop, participants will work in small groups for guided practice on woody members of Garden in the Woods' shrub collection. Learn to enhance a plant's vigor, health, and appearance while discovering what types of tools to use, when to prune, and how the plant responds. Bring hand-pruners and dress for working outdoors—rain, snow, or shine.

Saturday, April 5, 1:30–4:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3115

Instructors: Deborah Howe and Garden in the Woods Horticulture staff

Fee: \$33M/\$40NM

Limit: 15 **Credit:** Elective–HD or Adv. HD

DESIGNING MIXED BED PLANTINGS

Scott Scarfone, landscape architect and author of *Professional Planting Design—An Architectural and Horticultural Approach for Creating Mixed Bed Plantings*, will discuss his design principles for mixed garden beds in this interactive program designed for green professionals and amateur gardeners alike. After analyzing the components of an appealing, well-designed mixed bed, Scott will deconstruct the whole to get to the essence of a workable plan. Then, using a building-block technique, he will demonstrate the careful orchestration that will result in a visually interesting garden. Bring a bag lunch and beverage. Scott's book will be available for purchase. Cosponsored with Arnold Arboretum, Massachusetts Horticultural Society, and Wellesley College Friends of Horticulture.

Saturday, April 5, 9 a.m.–4 p.m.

Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR4036

Instructor: Scott Scarfone

Fee: \$90M/\$108NM

Credit: Core–Adv. HD; Elective–HD

botany & conservation

PLANT FORM AND FUNCTION

This course, formerly known as “Basic Botany,” provides an introduction to general plant anatomy and physiology. Students are introduced to the plant kingdom through slides and live materials. Microscopes allow for detailed observation of roots, stems, and leaves, and their component tissues. Examination of flowers, fruits, and seeds reveals the details of pollination, fertilization, dispersal, and germination, emphasizing the relationship between plant form and function. Information on a recommended text will be sent upon registration.

Thursdays, September 20, 27, October 4, 11, 18, 25, 6:30–9 p.m.

Bentley College, Waltham, MA

Course Code: BOT1000

Instructor: Nancy Eyster-Smith

Fee: \$176M/\$208NM

Limit: 16 **Credit:** Core–FB or HD

FALL GRAMINOIDS IN THE FIELD

Designed for those who have either taken a previous course or are familiar with basic graminoid families and terminology, we will look at grasses, sedges, and rushes that can be best identified in the fall. Part of the day will include visits to a variety of habitats, looking at key features in the field. We will bring specimens back to the classroom for closer examination. Participants should bring a hand lens and lunch.

Friday, September 21, 9:30 a.m.–3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3617

Instructor: Frances Clark

Fee: \$72M/\$84NM

Limit: 15 **Credit:** Elective—all certificates

JOIN THE EDUCATION TEAM

We are always looking for new instructors and course ideas. Please contact Education Director Greg Lowenberg at 508-877-7630, ext. 3301, or glowenberg@newenglandWILD.org.

ASTER IDENTIFICATION WORKSHOP

For many years, asters have been among the most challenging of native plants to identify in the field, for both professionals and amateurs. There are several aster genera and many species in New England, including hybrids. Traditional field guides have proven to be inadequate for identifying asters, in part because they lack sufficient detail, and their nomenclature has not been updated to reflect recent research. This workshop will focus on identifying 15–20 of the most common species—the ones most often found in the wild. A field trip will follow a two-hour lab. Bring hand lens, bag lunch, and sturdy hiking shoes. Cosponsored with the Yale Peabody Museum of Natural History.

Saturday, September 22, 10 a.m.–3 p.m.

Yale Peabody Museum of Natural History, New Haven, CT

Course Code: BOT3014

Leader: Arieh Tal

Fee: \$50M/\$60NM

Limit: 16 **Credit:** Elective—all certificates

INTRODUCTION TO BOTANY

The study of botany encompasses plant cells and tissues, anatomy and morphology, reproduction, nutrition, growth and development, plant diversity, evolution, classification, and nomenclature. This course, offering both lecture and laboratory time, introduces botany to new students or serves as a refresher course, and is equivalent to “Plant Form and Function.” Required text: *Botany for Gardeners* by Brian Capon. Cosponsored with Arnold Arboretum of Harvard University.

Tuesdays, September 25, October 2, 9, 16, 23, 30, November 6, 13, 6:30–8:30 p.m.

Harvard University Herbarium, Cambridge, MA

Course Code: BOT1010

Instructor: K. N. Gandhi

Fee: \$180M/\$215NM

Limit: 16 **Credit:** Core–FB or HD



LICHEN IDENTIFICATION EVENINGS

Those with some previous lichen identification experience and alumni of lichen courses at Garden in the Woods are welcome to participate in evening lichen identification sessions in a relaxed, informal atmosphere. Identification keys for New England lichens, chemicals for spot tests, an ultraviolet lamp, and microscopes will be provided for the sessions. Participants are asked to bring in a few lichens to identify and to share with the group.

Please preregister for each session.

Wednesday, Sep 26, 7–9 p.m. BOT3620

Wednesday, Oct 24, 7–9 p.m. BOT3621

Wednesday, Nov 28, 7–9 p.m. BOT3622

Tuesday, Jan 29, 7–9 p.m. BOT3623

Thursday, Feb 28, 7–9 p.m. BOT3624

Wednesday, Mar 26, 7–9 p.m. BOT3625

Garden in the Woods, Framingham, MA

Instructor: Elizabeth Kneiper

Fee: \$20M/\$24NM per session

Limit: 10 **Credit:** Elective–FB or Adv. FB

botany & conservation

FERNS OF THE CONNECTICUT VALLEY

This class will focus on the rich and diverse fern species of the Connecticut Valley of Massachusetts. The evening class will present an overview of our local ferns—identification, ecology, and life history—with an illustrated talk and specimens to examine. On Saturday we will visit several sites in Hampshire and Franklin Counties to view species in a variety of habitats. The instructor will share tips and tricks for field identification of the species in our area. Our goal will be to become familiar with 30 species. Bring a hand lens both days, and a bag lunch on Saturday, and be prepared for walking on uneven, wet terrain and slippery rocks. Cosponsored with Hitchcock Center for the Environment.

Thursday, September 27, 7–9 p.m., and Saturday, September 29, 9 a.m.–4 p.m.

Hitchcock Center for the Environment, Amherst, MA

Course Code: BOT3430

Instructor: Ted Watt

Fee: \$90M/\$108NM

Limit: 15 **Credit:** Elective—all certificates

FRAMEWORK TREES OF NEW ENGLAND

Trees are the dominant plant type of New England, with forests covering most of the land area. This survey course will address identification and natural history of individual species, as well as forest ecology. Since understanding today's forests requires familiarity with their history, we will review the changing landscape from the Ice Age through European settlement. Students will learn to identify native New England trees and their habitats, recognize different aged stands—pioneer, second growth, and other growth—and become familiar with the forest communities of the northeastern temperate region, considering the natural conditions and human disturbance factors that produce the different forest associations. Field trips will take us to a variety of forest types. Sections are cosponsored with The Fells, White Memorial Conservation Center, and Yale Peabody Museum of Natural History.

FRAMEWORK TREES (continued)

Choose one of three sections.

Tuesdays, October 2, 9, 16, 23, 7–9 p.m., and Saturdays, October 13, 12 noon–4 p.m., October 20, 9 a.m.–1 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3200

Instructor: Karen Sebastian

Fee: \$176M/\$204NM

Limit: 16 **Credit:** Core–FB

Tuesday and Friday, October 9 and 12, 1–5 p.m., and Saturday, October 13, 9 a.m.–4 p.m.

The Fells, Newbury, NH

Course Code: BOT3202

Instructor: Rick Van de Poll

Fee: \$176M/\$204NM

Limit: 16 **Credit:** Core–FB

Saturdays, October 13, 20, 27, 10 a.m.–3 p.m.

White Memorial Conservation Center, Litchfield, CT; Sessions Woods, Burlington, CT; and Yale Peabody Museum of Natural History, New Haven, CT

Course Code: BOT3205

Instructor: Bryan Connolly

Fee: \$176M/\$204NM

Limit: 16 **Credit:** Core–FB

INTRODUCTION TO NEW ENGLAND BRYOPHYTES

Mosses and liverworts are fascinating, diverse, and hardy little plants. This daylong class will include an overview of common New England bryophyte families and their characteristics, the bryophyte life cycle, terminology, ecology, and an introduction to using identification keys. We'll explore the Montshire Museum's outdoor areas to identify many species in their natural settings, and then return to the classroom to review the species we have found. Bring a 10x or greater hand lens. An extensive handout will be provided.

Friday, October 5, 9 a.m.–4 p.m.

Montshire Museum of Science, Norwich, VT

Course Code: BOT3450

Instructor: Mary Lincoln

Fee: \$77M/\$91NM

Limit: 12 **Credit:** Elective—all certificates

LEAF MORPHOLOGY

Leaf morphology is the study of the external features of leaves. Leaves are so varied that botanists have invented an entire vocabulary to describe their shapes, tips, bases, stalks, edges, surfaces, etc. A familiarity with leaf characteristics and terms is essential for navigating plant keys, and actually helps you better observe leaves. It's even more fun to apply this vocabulary to the wonderful autumn leaves we have all around us, so bring a few of your favorite leaves for this hands-on workshop. Using dissecting microscopes and hand lenses, we'll compare our observations with descriptions in various field guides and flora. Recommended text: *Plant Identification Terminology* by James and Melinda Harris. Cosponsored with Arnold Arboretum of Harvard University.

Saturdays, October 13, 27, 9:30 a.m.–12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1027

Instructor: Carol Govan

Fee: \$66M/\$78NM

Limit: 15 **Credit:** Elective—all certificates

IDENTIFICATION AND CONTROL OF INVASIVE PLANTS

Invasive exotic plants pose one of the greatest threats to the native flora of New England. Found in virtually every habitat type in the region and in urban areas, they vigorously compete with our native plants for moisture, light, nutrients, and space, and they often seriously disrupt managed landscapes. Join invasive plant expert Christopher Mattrick for a workshop on identifying and controlling some of our worst invasive exotic plants. Chris will conduct a field identification session on portions of the Montshire Museum's property and a nearby site. Then he will demonstrate some of the most effective control techniques for each species encountered. Extensive handouts on control methods and identification are included. Cosponsored with Montshire Museum of Science.

Sunday, October 14, 10 a.m.–3 p.m.

Montshire Museum of Science, Norwich, VT

Course Code: BOT5107

Instructor: Christopher Mattrick

Fee: \$55M/\$65NM

Limit: 20 **Credit:** Elective—all certificates

botany & conservation

THE GOOSEFOOTS: CHENOPODIUM AND DYSPHANIA WORKSHOP

The genera *Chenopodium* and *Dysphania* (formerly grouped in one genus, *Chenopodium*) represent technically challenging genera of the *Amaranthaceae*. Because of the relatively small reproductive features of these species and the specialized terminology involved, many students have avoided tackling this interesting group of plants. Though some are familiar weedy species, there are many natives occurring in diverse plant communities, including coastal beach systems, cliffs and talus slopes, and woodlands overlying high pH bedrock. *Chenopodium* contains several globally and regionally rare species in New England. This half-day workshop will focus on learning to use contemporary identification keys. Lecture, presentations using color digital images, and guided keying of pressed specimens from throughout New England will allow students to gain familiarity with the diversity of this genus. Cosponsored with Delta Institute of Natural History.

Choose one of two sections.

Sunday, October 28, 12 noon–4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2911

Instructor: Arthur Haines

Fee: \$48M/\$56NM

Limit: 16 **Credit:** Elective–FB; Core–Adv. FB

Sunday, January 20, 12 noon–4 p.m.

Delta Institute of Natural History, Bowdoin, ME

Course Code: BOT2912

Instructor: Arthur Haines

Fee: \$48M/\$56NM

Limit: 16 **Credit:** Elective–FB; Core–Adv. FB

VISIT OUR BOOKSTORE

Purchase textbooks and course supplies at the Society's Museum Store at Garden in the Woods or online at www.newenglandWILD.org.

SAMPLING THE CONIFERS: PART 1—PINACEAE

Can you tell a spruce from a fir, or a cedar from a hemlock? Do all evergreens look like pines to you? In this class, which takes place in the Arnold Arboretum's world-class conifer collection, you can learn the characteristics of the pine family (*Pinaceae*). By the end of class you should be able to recognize the differences and similarities in hemlock, spruce, fir, larch, cedar, and pine. Bring a clipboard, pen, and paper for taking notes and dress for the outdoors. Cosponsored with Arnold Arboretum of Harvard University.

Sunday, November 4, 1–4 p.m.

Dana Greenhouses, Arnold Arboretum, Jamaica Plain, MA

Course Code: BOT3252

Instructor: Dennis Collins

Fee: \$35M/\$40NM

Limit: 20 **Credit:** Elective—all certificates

NEW ENGLAND ROCK WALL LICHENS

New England rock walls support assemblages of yellow-green, gray, and brown encrusting, leafy, and upright lichens. Lichens are a nutritive association between a fungal and algal component, and each association forms a structurally and biochemically unique lichen thallus. In this class, we will examine features used to distinguish species and practice using "spot tests" to confirm lichen chemistry. Identification exercises use Patricia and James Hinds' *The Simplified Field Key to Maine Macrolichens* (copies will be available at the first class). By the end of the course, participants should be able to distinguish 15 common rock wall lichens. Bring a 10x lens and a lunch for the local field trip.

**Tuesdays, November 6, 13, 6:30–9 p.m.,
and Sunday, November 18, 10 a.m.–3 p.m.**

Garden in the Woods, Framingham, MA

Course Code: BOT3604

Instructor: Elizabeth Kneiper

Fee: \$110M/\$130NM

Limit: 15 **Credit:** Elective—all certificates

SAMPLING THE CONIFERS: PART 2—CUPRESSACEAE

This field session will familiarize you with some of the conifer families and the identifying characteristics of the most commonly seen species in the family *Cupressaceae*, which includes juniper, arborvitae, cypress, and falsecypress, and in some of the smaller families (*Taxaceae*, *Sciadopityaceae*). Studying plants in the Arnold Arboretum's conifer collection will enable you to see the different species up close and to compare their growth habits, needle presentation, cones, and bark. Bring a clipboard, pen and paper for taking notes, and dress for the outdoors. Cosponsored with Arnold Arboretum of Harvard University.

Sunday, December 2, 1–4 p.m.

Dana Greenhouses, Arnold Arboretum, Jamaica Plain, MA

Course Code: BOT3253

Instructor: Dennis Collins

Fee: \$35M/\$40NM

Limit: 20 **Credit:** Elective—all certificates

PLANT SYSTEMATICS MODULE 2

This second of five Plant Systematics modules will begin to examine tracheophyte families starting with free-sporing plants (i.e., ferns and fern allies), and ending with three major groups of seed plants: non-flowering seed plants (i.e., conifers); magnoliids (i.e., primitive dicots); and monocots. A lecture will use text and images to describe critical characters for family-level identification and for representative genera in New England. The course will focus on modern taxonomy and family arrangements, as set forth by Judd et al. (*Plant Systematics: A Phylogenetic Approach*). Cosponsored with Delta Institute of Natural History.

Choose one of two sections.

Sunday, November 4, 1–4 p.m.

Delta Institute of Natural History, Bowdoin, ME

Course Code: BOT2231

Instructor: Arthur Haines

Fee: \$40M/\$48NM

Limit: 18 **Credit:** Elective—all certificates;
Core–Adv. FB

botany & conservation

PLANT SYSTEMATICS 2 (continued)

Wednesday, February 27, 6:30–9:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2230

Instructor: Arthur Haines

Fee: \$40M/\$48NM

Limit: 18 **Credit:** Elective—all certificates;
Core—Adv. FB

UNDERSTANDING BOTANICAL AND HORTICULTURAL NAMES

During this workshop on plant nomenclature, students will have the opportunity to sort out the confusion associated with plant names. We will discuss common names, binomial scientific names, and the history of nomenclature since Linnaeus. We will review the current rules of nomenclature, and see why and how plant names sometimes change. We will then look at a variety of plant names and try to deduce whether they give clues to the plant's characteristics. Attention will also be given to the names of species and hybrids in cultivation and the meaning of cultivar names. This course is equivalent to "Introduction to Plant Systematics"—module one of the five-part series in plant systematics. Cosponsored with Arnold Arboretum of Harvard University.

Saturday, November 17, 1–4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2205

Instructor: Judith Sumner

Fee: \$40M/\$48NM

Limit: 18 **Credit:** Elective—all certificates;
Core—Adv. FB

IDENTIFYING HERBACEOUS PLANTS IN THE LATE FALL

In late fall, when most perennial plants have finished their season of growth, it is still possible to identify them by closely examining their dried leaves, stems, and persistent fruits and seeds. Join Frances Clark for a classroom- and field-based opportunity to learn some of the weeds and native herbaceous species growing in disturbed habitats, fields, and woodland edges. While learning identification features, we'll also examine their seed dispersal mechanisms. This course

is valuable for those who are doing fall or winter plant inventories, as well as anyone who enjoys the outdoors and wants to learn which plants can be identified at this time.

Saturday, December 1, 1–4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3319

Instructor: Frances Clark

Fee: \$36M/\$42NM

Limit: 15 **Credit:** Elective—all certificates

SHRUBS IN WINTER

The leaves are nearly gone from most of our shrubs, but that doesn't mean you can't learn to recognize them. We will focus on a number of macro-characteristics such as branching patterns, growth habits, bark, persistent fruit, galls, and habitats to help us identify more than 20 of our native New England shrubs in winter. We'll also spend some time discussing the natural history of the shrubs we see. The program begins with a classroom session and then we'll go into the field. We'll be looking for such species as witch hazel (*Hamamelis virginiana*), high-bush blueberry (*Vaccinium corymbosum*), and, of course, winterberry (*Ilex verticillata*) and wintergreen (*Gaultheria procumbens*). Bring lunch and a hand lens. Cosponsored with Delta Institute of Natural History.

Choose one of two sections.

Saturday, December 8, 10 a.m.–2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3312

Instructor: Roland "Boot" Boutwell

Fee: \$48M/\$56NM

Limit: 15 **Credit:** Elective—all certificates

Sunday, February 3, 10 a.m.–2 p.m.

Delta Institute of Natural History, Bowdoin, ME

Course Code: BOT3322

Instructor: Roland "Boot" Boutwell

Fee: \$48M/\$56NM

Limit: 15 **Credit:** Elective—all certificates

MEMBERS SAVE

Join New England Wild Flower Society and get up to 20% off courses and field trips. See page 28.

PLANT SYSTEMATICS MODULE 3

This third of five Plant Systematics modules will examine tracheophyte families referred to as the tricolpates (i.e., the majority of dicot plants). Discussion will include primitive tricolpates (e.g., Ranunculaceae, Papaveraceae, Amaranthaceae) and eurosids (e.g., Rosaceae, Betulaceae, Brassicaceae). The lecture will use text and images that describe both critical characters for family-level identification and representative genera in New England. Cosponsored with Delta Institute of Natural History.

Sunday, December 9, 1–4 p.m.

Delta Institute of Natural History, Bowdoin, ME

Course Code: BOT2236

Instructor: Arthur Haines

Fee: \$40M/\$48NM

Limit: 18 **Credit:** Elective—all certificates;
Core—Adv. FB

THE NATURE OF BREAD

As the "staff of life," bread has its origins in both Old World and New World culinary and agricultural traditions. In this daylong course, we will investigate the science and history of bread baking, beginning with European and Native American grains and the culturing of wild yeasts originally used as leavening agents. We will examine the ethnobotany of grains and the properties of their flours, as well as the reactions of fermentation and their effect on bread doughs. Looking at some historical cookbooks and household "receipt books," we'll learn how early bread mixtures were compounded, and we'll experiment with some actual baking projects. This is an excellent hands-on learning opportunity for those interested in botanical knowledge of grain plants, as well as for passionate bakers who want to enhance their knowledge. Cosponsored with Cambridge Center for Adult Education.

Saturday, January 19, 10 a.m.–4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT7012

Instructor: Judith Sumner

Fee: \$72M/\$84NM

Limit: 15 **Credit:** Elective—all certificates

botany & conservation



WINTER BOTANY

This course includes classroom lectures on the taxonomic characteristics of trees, shrubs, and herbaceous and evergreen plants in winter, including hands-on identification of twig and plant specimens. Learn the significance of macro- and micro-characteristics, including growth habit, bud morphology, phyllotaxy, leaf and bundle scars, floral patterns, and fruits. Acquire experience with an extensive array of classroom specimens and field identification of woody plants. Gain confidence using a key to identify unknown specimens, whether you are a beginning or experienced botanist. The program provides lecture notes, a copy of *Harlow's Fruit Key and Twig Key*, and twig samples to take home. Bring a hand lens and bag lunch. Cosponsored with Hitchcock Center for the Environment.

Choose one of two sections.

Saturday, January 19, 9 a.m.–3:30 p.m.

Hitchcock Center for the Environment, Amherst, MA

Course Code: BOT3316

Instructor: William Kuriger

Fee: \$75M/\$85NM

Limit: 15 **Credit:** Elective—all certificates

Saturday, January 26, 9 a.m.–3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3317

Instructor: William Kuriger

Fee: \$75M/\$85NM

Limit: 15 **Credit:** Elective—all certificates

INTRO TO PLANT SYSTEMATICS (MODULE 1)

Plant systematics is the science of plant diversity and of the relationships among different kinds of plants. This course is for students beginning their study as well as for those with prior knowledge of taxonomy. We will discuss the phylogenetic method, the characteristics used to decipher true evolutionary relationships, basic nomenclature, and an overview of vascular plant relationships. Required textbook is *Plant Systematics: A Phylogenetic Approach* by Judd, Campbell, Kellogg, and Stevens.

Wednesday, January 23, 6:30–9:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2225

Instructor: Arthur Haines

Fee: \$40M/\$48NM

Limit: 18 **Credit:** Elective—all certificates; Core—Adv. FB

CONSERVATION BIOLOGY

Naturalists are increasingly concerned with the degradation of natural ecosystems and losses in biodiversity. How can we be more effective in promoting preservation of critical habitats and assist with the stewardship of protected lands? This course provides a background in the principles of conservation biology so you can become a more effective conservation advocate. Topics include identification and prioritization of targets for preservation; mechanisms available to preserve land; management/stewardship; and special problems, including invasive species and loss of pollinators. A series of article reprints and handouts will be provided along with recommendations for further reading.

Wednesdays, January 30, February 6, 13, 20, 27, 7–9 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT5100

Instructor: Frances Clark

Fee: \$120M/\$140NM

Limit: 15 **Credit:** Elective—all certificates

BACKYARD SUGARING

Do you have a sugar maple or two in your yard? Do you love maple syrup? If so, then join us to learn how to make your own delicious syrup. We'll cover everything—tree identification, equipment, tapping, weather, boiling, finishing, and storing—that you need to get started on this sweet project. Cosponsored with Massachusetts Audubon's Drumlin Farm Nature Center.

Saturday, February 2, 12:30–4 p.m.

Drumlin Farm Nature Center, Lincoln, MA

Course Code: BOT7013

Instructors: Roger Backman and Tia Pinney

Fee: \$28M/\$35NM

WINTER TREE OBSERVATIONS

Winter is a great time to identify trees based on their overall structure and twig and bud characteristics. Close observation also reveals clues to the adaptive strategies of various tree species. We will begin indoors by examining twigs and other tree parts, discovering family and genus similarities, and indicators of stages of growth that occur too high in the tree to easily observe. After lunch we will tour Wellesley College's Botanic Gardens to identify trees, observing both large- and small-scale details. Bring a lunch and hand lens and dress for cold weather. Cosponsored with Arnold Arboretum of Harvard University and Wellesley College Friends of Horticulture.

Register for one or both sections.

EVERGREEN TREES

Saturday, February 2, 10 a.m.–2 p.m.

Wellesley College Botanic Garden Visitor Center, Wellesley, MA

Course Code: BOT3206

Instructor: Carol Govan

Fee: \$45M/\$55NM

Limit: 16 **Credit:** Elective—all certificates

DECIDUOUS TREES

Saturday, February 9, 10 a.m.–2 p.m.

Wellesley College Botanic Garden Visitor Center, Wellesley, MA

Course Code: BOT3207

Instructor: Carol Govan

Fee: \$45M/\$55NM

Limit: 16 **Credit:** Elective—all certificates

wetlands

INTRODUCTION TO WETLANDS AND WETLANDS ECOLOGY

Wetlands are crucial for the proper functioning of our human-influenced landscape. In this illustrated talk followed by a short field walk, wetland scientist William Kuriger will highlight some of the characteristics and functional values of our local wetlands. Intended for a non-professional audience, this program will help us understand how wetlands work to enhance water absorption and filtration, while serving as a rich resource for wildlife. The ecological interactions between wetland plants, animals, and the unique wetland environment will be illustrated both in the talk and during a late-morning ramble through wetland portions of the Hitchcock Center's property.

Sunday, October 21, 12–3:30 p.m.

Hitchcock Center for the Environment,
Amherst, MA

Course Code: WET4005

Instructor: William Kuriger

Fee: \$35M/\$42NM

Limit: 20 **Credit:** Elective—all certificates

INTERMEDIATE WETLAND DELINEATION WORKSHOP

This is a hands-on workshop, featuring lectures and fieldwork, for those who have already been introduced to wetland delineation concepts and methods. You will learn current regulatory standards and conduct a wetland delineation in the field. The morning lectures will review field indicators for vegetation, soils, and hydrology, as well as manual requirements by the Massachusetts and Army Corps methods. The afternoon fieldwork will take place at a nearby wetland system and will include delineations at a number of transects. Bring field notebooks, a bag lunch, and clothes for fieldwork.

Friday, October 26, 9 a.m.–4:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET2012

Instructor: William Kuriger

Fee: \$90M/\$105NM

Limit: 15 **Credit:** Elective–FB; Core–Adv. FB

WETLAND SPECIES IDENTIFICATION IN WINTER

This program will help you recognize wetland trees and shrubs in winter. The morning session will be spent indoors learning key identification features. After lunch, we will go out into the field to see the plants in their habitats and determine wetland boundaries. Some familiarity with common wetland plants and taxonomy is helpful. Dress warmly and prepare for cold, wet field conditions. Bring a hand lens and a bag lunch.

Saturday, January 5, 9 a.m.–3 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET1002

Instructor: Dennis Magee

Fee: \$66M/\$78NM

Limit: 18 **Credit:** Elective—all certificates

CONCERNED ABOUT CONSERVATION?

Learn how you can help preserve critical habitats with "Conservation Biology." See page 16.

VERNAL POOL ECOLOGY

During the end of the last ice age, retreating glaciers carved some of New England's most unique habitats: vernal pools. These ephemeral bodies of water harbor an array of plants, invertebrates, reptiles, amphibians, and other wildlife. This two-part program will begin with an introduction to the geology and ecology of these pools. We will discuss the natural history of the organisms inhabiting them, devoting particular attention to those that rely upon vernal pools for successful reproduction. Our second session will bring us into the field where we will take a firsthand look at the Garden's Lost Pond, a classic woodland vernal pool. We'll then examine a slightly different vernal pool ecosystem at a nearby location, taking a closer look at some of the vernal pool residents and discussing current research to better understand the interactions of organisms inhabiting these pools. Bring a lunch and rubber boots for the field day.

Thursday, April 10, 7–9 p.m., and Saturday, April 12, 9 a.m.–2 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET3011

Instructor: Mark D. Cooperman

Fee: \$77M/\$90NM

Limit: 15 **Credit:** Elective—all certificates



field trips

MOUNT ALANDER

At 2,250 feet, Mt. Alander is one of the highest peaks in the southern Taconic Mountains and lies atop the three-state junction of Connecticut, New York, and Massachusetts. Our seven-mile loop hike will begin at Mt. Washington State Forest headquarters. On our way to the summit, which is the highest point of Columbia County, New York, we will pass through northern hardwood forest, oak forest, and hemlock ravines to a large open bald with scrub oak, low bush blueberry, huckleberry, and a variety of other low shrubs. En route, we will look at a variety of asters, goldenrods, and other late-blooming plants. The peak has spectacular views of the Berkshires, Taconics, Hudson Valley, and Catskills, as well as migrating birds. The hike is fairly strenuous and rocky in sections. Bring a bag lunch, water, and suitable footwear.

Sunday, September 16, 10 a.m.–4 p.m.

Mt. Washington, MA

Course Code: FDT2044

Leader: Ted Elliman

Fee: \$35M/\$40NM

Limit: 15 **Credit:** Field—all certificates

FUNGI IN THE FIELD

Can you distinguish a bolete from a gilled mushroom? What is a mushroom anyway? Fall is fungi season in the Northeast. Join Massachusetts Audubon's Jef Taylor for two field walks to discover and identify as many fungi as we can. Learn about the crucial and sometimes astonishing roles these fascinating life forms have in the ecosystem and some methods for identifying mushrooms and other fungi in the field.

Register for one or both field trips.

Saturday, September 22, 1–3:30 p.m.

Drumlin Nature Center, Lincoln, MA

Course Code: FDT1079

Sunday, October 14, 1–3:30 p.m.

Drumlin Nature Center, Lincoln, MA

Course Code: FDT1080

Leader: Jef Taylor

Fee: \$15M/\$22NM for each field trip

Limit: 15 **Credit:** Field—all certificates

SALT MARSH AND SCULPINS

Join ecologist Keith Killingbeck for a southern New England triptych—Succotash Salt Marsh (for plants), Cap'n Jack's (for chowder and clamcakes), and Ninigret Pond (for underwater inhabitants). After meeting briefly at East Matunuck State Beach, we will drive to nearby Succotash Salt Marsh to identify the salt-tolerant plants that grow there and to discuss their ecology. We will also botanize along a sandy beach adjacent to the marsh. After working up an appetite in the marsh, we will stop at Cap'n Jack's for their famous take-out chowder and clamcakes on our way to Ninigret Pond. The timing of sunset should be perfect for our foray into the pond. In shorts or rolled-up pants, we will wade into the shallow, warm waters armed with flashlights to search out fish and crabs, or whatever else the night might bring. A list of what to bring and wear will be provided with registration.

Saturday, September 29, 3–8 p.m.

Succotash Marsh and Ninigret Pond, RI

Course Code: FDT7017

Leader: Keith T. Killingbeck

Fee: \$35M/40NM (dinner is on your own)

Limit: 15 **Credit:** Field—all certificates

SACO HEATH

This outstanding botanical site is perhaps the southernmost example of a raised bog in North America, dating back 12,000 years, when glacial activity created adjacent water-filled kettle holes. Saco Heath formed when these ponds filled with decaying plant matter called peat. With each year's plant growth adding to the peat accumulation, the two peatlands eventually grew together above the water table to form a raised, coalesced bog. The flora of Saco Heath includes hemlock, tamarack, black gum, Labrador tea, leatherleaf, pitcher plant, cotton grass, and sundew. Bring lunch and a hand lens if you have one.

Saturday, September 29, 10 a.m.–2 p.m.

Saco, ME

Course Code: FDT3002

Leader: Roland "Boot" Boutwell

Fee: \$30M/\$35NM

Limit: 10 **Credit:** Field—all certificates

HIGH HEAD

The last of the glacial moraine headlands, High Head in North Truro, Massachusetts, affords wonderful vistas of the Atlantic Ocean and the shoreline of Pilgrim Lake, one of the largest brackish water bodies on Cape Cod. Coastal heathlands are a dominant community here, and we'll examine identification techniques for golden heather (*Hudsonia ericoides*), woolly hudsonia (*H. tomentosa*), and broom crowberry (*Corema conradii*). Interdune swales provide habitat for ripe cranberries (*Vaccinium macrocarpon*), nodding ladies tresses (*Spiranthes cernua*), and a possible late-blooming rose pogonia (*Pogonia ophioglossoides*). Bayberry and beach plum fruits should be ripe for the picking, along with the largest concentration of winterberry (*Ilex verticillata*) on the Cape. Thousands of the brilliant crimson fruits add to the early autumn foliage colors. Join botanist Mario DiGregorio for a pleasant walk to identify plants growing in this unusual plant community.

Sunday, September 30, 10 a.m.–1 p.m.

North Truro, MA

Course Code: FDT1068

Leader: Mario DiGregorio

Fee: \$27M/\$33NM

Limit: 15 **Credit:** Field—all certificates

WINSLOW LEDGE

Winslow Ledge is one of the most diverse and unique habitats in New Hampshire. Managed by the White Mountain National Forest, it is located along the Appalachian Trail, in Lyme. The site boasts a variety of rare plant species and contains a unique diversity of habitats from enriched slopes, seepage streams, dry cliffs, and a maze of terraces, ledges, and crags, many of which have yet to be examined. We will encounter several known populations of rare species and we'll visit as yet unexplored areas during this early fall botanical foray.

Sunday, September 30, 10 a.m.–3 p.m.

Lyme, NH

Course Code: FDT4028

Leader: Christopher Mattrick

Fee: \$40/\$45

Limit: 15 **Credit:** Field—all certificates

field trips

WITCHES OF OCTOBER

It's October, and witches and their signs abound in the woods of Arcadia Wildlife Sanctuary in Easthampton, Massachusetts. Witches' brooms hang in the trees, witches' caps can be found on the leaves, and witches' flowers adorn the trees. Come celebrate the season with an entertaining and educational walk led by naturalist Rolland "Boot" Boutwell. We'll look for late-flowering wildflowers and shrubs, and learn about the natural history of a variety of plants, including how they were used by early Native Americans, and colonial Americans, and how they are still used today. Among the plants we'll look for are Indian soap, the toothbrush tree, the toilet paper tree, and an antidote for poison ivy. Cosponsored with Massachusetts Audubon Society's Arcadia Wildlife Sanctuary.

Saturday, October 6, 9:30 a.m.–12:30 p.m.

Arcadia Wildlife Sanctuary, Easthampton, MA

Course code: FDT2045

Leader: Roland "Boot" Boutwell

Fee: \$15M/\$20NM

Limit: 15 **Credit:** Field—all certificates

HERMIT'S CASTLE

Immense rock formations, fascinating plant communities, and a view of magnificent fall colors and the Millers River—what better way to spend a day in October? Join Elizabeth Farnsworth for a moderately steep hike to visit the Erving Castle in Erving, Massachusetts. These dramatic caves and talus slopes were home to the famous Hermit of Erving, John Smith, from 1867 to 1899. Roam the rocky ruins of his stoneworks and gardens, and botanize amid the huge trees and seeps that make this a very unusual place, ecologically speaking, in this west-central Massachusetts ecoregion. The loop trail will lead us down through rich woods to the hermit's valley, then uphill to a very different ledge community, where we can picnic and enjoy the vista. Cosponsored with Hitchcock Center for the Environment.

Sunday, October 7, 10 a.m.–3 p.m.

Erving, MA

Course Code: FDT2046

Leader: Elizabeth Farnsworth

Fee: \$35M/\$40NM

Limit: 15 **Credit:** Field—all certificates

FERNS IN THE FELLS

The Middlesex Fells, a large conservation area just north of Boston, has been protected for over 100 years. Its varied topography of hills, streams, swamps, and ponds provides a range of habitats that harbor a good variety of fern species. In this fall fern foray, we expect to see about 18 native ferns, including Virginia chain fern (*Woodwardia virginica*), crested wood fern (*Dryopteris cristata*), and Boott's wood fern (*Dryopteris x boottii*). Wear protective clothing for a 2½-mile hike and bring a hand lens if you have one. See <http://nefern.info> for info and updates by the leaders.

Saturday, October 13, 11 a.m.–3 p.m.

Winchester, MA

Course Code: FDT1085

Leaders: Don Lubin and Ray Abair

Fee: \$30M/\$35NM

Limit: 15 **Credit:** Field—all certificates

SANDY NECK

Sandy Neck in Barnstable is Massachusetts' largest barrier beach. On this four-mile hike in sandy soil, we will examine large coastal dune fields, a salt marsh, and a strange "sunken" forest. Within the forested area is the rare coastal basswood (*Tilia americana* var. *neglecta*), found in only a few coastal islands in maritime locales of the Cape and Plymouth County. In addition to identifying the plants, we'll also keep an eye out for early snowy owls, harriers and maybe a diamond-back terrapin. Walking sticks, comfortable footwear, and a hand lens are recommended.

Sunday, October 14, 10 a.m.–2:30 p.m.

Barnstable, MA

Course Code: FDT1017

Leader: Mario DiGregorio

Fee: \$35M/\$40NM

Limit: 15 **Credit:** Field—all certificates



AUTUMN AT GRASSY POND

The Grassy Pond Conservation Land in Acton covers a variety of different habitats: a kettle hole pond and surrounding wetlands, a couple of streams, a vernal pool, a meadow, and a mixed forest of conifers and northern hardwoods. A wooden pier with an observation platform reaches out into Grassy Pond and a 425-foot boardwalk meanders across the wide wetlands at one of the pond's two outlets. The wetlands are an example of an acidic graminoid fen, populated by such plants as tamarack (*Larix laricina*) and leatherleaf (*Chamaedaphne calyculata*). In the uplands, witch hazel (*Hamamelis virginiana*) is prevalent in the understory and should be in full bloom by this time. The walk will focus both on plant identification and natural history. Bring a hand lens.

Friday, October 19, 2–5 p.m.

Acton, MA

Course Code: FDT1060

Leader: Roland "Boot" Boutwell

Fee: \$25M/\$30NM

Limit: 15 **Credit:** Field—all certificates

SEARS AND FORBES CONSERVATION LANDS

The Sears Conservation Land (82 acres) and Forbes Conservation Land (8 acres) in Weston, Massachusetts, feature an excellent variety of typical natural communities as well as a rich history of land use. Focusing on several woodland communities, wetlands, open fields, and meadows, Weston resident Ed Petcavage will lead this botanical walk along trails and lanes that traverse marsh and pond edges, eskers, railroad beds, and rocky outcrops. Areas of the properties are set aside for forestry management and a vegetated wetland study. While identifying woody plants and persistent herbaceous plants, we will also observe signs of Weston's rich history, such as an abandoned mill site and apple orchards.

Sunday, October 21, 12:30–3:30 p.m.

Weston, MA

Course Code: FDT1086

Leader: Ed Petcavage

Fee: \$25M/\$30NM

Limit: 15 **Credit:** Field—all certificates

lifestyle & health

YOGA IN THE GARDEN

Join yoga teacher Michele Laura for a one-hour yoga class each week and feel stronger, more flexible, energized, and centered. Focused Flow Yoga integrates body, mind, and spirit using breath work, posture flow, alignment, and body inquiry. And it's fun! Wear comfortable clothes for movement, and bring a yoga mat and water bottle.

Classes on Mondays, 6:30–7:30 p.m.

Garden in the Woods, Framingham, MA

Instructor: Michele Laura

Fall Section: Beginning September 10, ending December 10 (12 weeks; no classes October 8, November 12)

Course Code: LIF1206

Fee: \$120 for members and non-members

Winter Section: Beginning January 7, ending March 31 (11 weeks; no classes January 21, February 18)

Course Code: LIF1207

Fee: \$110 for members and non-members



art & seasonal design



NATURAL DYES

Many native and introduced plants are sources of beautiful colors. In this workshop, we will cover both wild-collected and cultivated dye plants. After gathering a variety of lichens, roots, leaves, and fruits, we will make dye baths to color some of Drumlin Farm's own wool or other natural fibers participants may bring. Participants will make a set of samples to inspire their own explorations of natural dyes. Cosponsored with Massachusetts Audubon's Drumlin Farm.

Saturdays, September 22, 1–5 p.m., and October 13, 1–4 p.m.

Drumlin Farm Nature Center, Lincoln, MA

Course Code: ART2700

Instructor: Tia Pinney

Fee: \$40M/\$45NM

Limit: 15

TAKING BETTER PICTURES WITH YOUR DIGITAL CAMERA

Are you still getting to know your digital camera and its features? Here's an opportunity to learn from the experts in this seminar for beginners. Bring your camera and learn when and how to use its special features, such as program mode, manual mode, aperture priority, and shutter priority. Also covered will be basic composition and best use of light for different subjects and situations, such as plants or people, and macro and landscape photography. Students are encouraged to bring one or two sample prints of their previous efforts to share with other students.

Saturday, September 29, 9 a.m.–1:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART6055

Instructors: Steve McGrath and Roseann McGregor

Fee: \$54M/\$63NM

Limit: 15

FALL WATERCOLORS IN THE GARDEN

Fall is a wonderful time to observe and understand how light affects rocks, trees, leaves, and the unique colors of the season. Whether you want to paint distant landscape impressions or plant portraits closely observed and rendered, watercolors offer a unique way to express your observations and vision. In this six-week session, you will use watercolors to create paintings suited to your particular style. Classes start indoors with short exercises on color, value, technique, etc., to become familiar with the medium, and then continue out in the gardens (weather permitting), or remain indoors to compose or paint from live plant material. This class is for all levels, including those with no previous experience. A list of required materials will be sent upon registration.

Tuesdays, October 2, 9, 16, 23, 30, November 6, 9:30 a.m.–12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART6006

Instructor: Carol Govan

Fee: \$198M/\$234NM

Limit: 12

art & seasonal design

FALL COLOR PHOTOGRAPHY WORKSHOP

As fall approaches, you want to be ready to compose some superb landscape photos as well as closeups of the magnificent colors and light that only this season brings. Join photographer Joan Weber for a workshop designed to enhance your compositional skills, using techniques available with most film and digital cameras. This workshop will cover use of filters, lighting techniques, composition, and color saturation, and will include both classroom and field guidance. This workshop is appropriate for photographers of all skill levels, but beginners should have mastered most features on their cameras. Students are encouraged to bring one or two sample prints of your previous efforts to share with other students.

Saturday, October 13, 9 a.m.–12:30 p.m., and Sunday, October 21, 1:30–4:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART6035

Instructor: Joan Weber

Fee: \$72M/\$85NM

Limit: 15

BUILD A RUSTIC GARDEN BENCH, SIDE TABLE OR TRELLIS

Rustic garden furnishings are beautiful and natural, and complement any garden. Furniture maker Frank Hamm will guide you through the process of designing and constructing your own rustic bench, table, or trellis. Techniques covered in this workshop can be applied to building other rustic furniture. You will collect branches from the Garden's brush pile; all other materials are provided. Bring gloves, measuring tape, hammer, pruning saw, and a portable electric drill (if you own one). Extra tools will be available. Cosponsored with Cambridge Center for Adult Education.

Saturday, October 27, 10 a.m.–2 p.m.

Garden in the Woods, Framingham, MA

Course Code: SDW3005

Instructor: Frank Hamm

Fee: \$95M/\$105NM (includes all materials for one project)

Limit: 20 (parent-child pairs are welcome)

DIGITAL WORKFLOW FOR BEGINNING PHOTOGRAPHERS

If you own a digital camera and a computer, but are challenged by the basic activities of transferring, storing, and manipulating images, this workshop is for you. Learn to connect your camera to the computer; transfer picture files; format your digital media card; organize, rotate, and name your images; save your files in different formats; and archive your images. The instructors will also discuss ways to enhance your images (cropping, resizing, color balance) and prepare your pictures for Web, e-mail, and printing. Bring your camera for hands-on help.

Tuesday, December 4, 7–9 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART6060

Instructors: Steve McGrath and Roseann McGregor

Fee: \$30M/\$36NM

BEGINNING PHOTOSHOP FOR ASPIRING PHOTOGRAPHERS

This workshop will help participants learn Photoshop® techniques and skills, and apply them immediately to their personal photography. Using classroom lecture and interactive student participation, the course will cover workflow, file types, optimizing images, layers, tools, panoramic images, color balance, working with black and white, and archiving. Extensive handouts will lead students step by step so that skills can be practiced at home. Students should have access to, or be willing to acquire, a version of Photoshop for in-home use.

Saturdays, February 2, 9, 9 a.m.–12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART6065

Instructors: Steve McGrath and Roseann McGregor

Fee: \$99M/\$112NM

AN EVANGELICAL-STYLE CHAUTAUQUA ON ART, GARDENING, AND PHOTOGRAPHY WITH CHARLES MANN

The camera can be a garden tool allowing us to see things anew or in ways that we have never glimpsed before. Stopping to take a photo teaches us to look and discover beauty. Join Charles Mann, one of the Southwest's premier garden photographers, for a conversation full of romantic and maverick opinions about why we take photos of plants and gardens, and about the people who create them and the landscapes that inspire them. The seminar will draw on Charles' observations of philosophy, art, garden design, and literature, and his stunning personal collection of garden and travel imagery. Refreshments provided.

Friday, February 15, 10:30 a.m.–12:30 p.m.

Elm Bank Horticultural Center, Wellesley, MA

Course Code: ART7020

Fee: \$40M/\$48NM

See p. 4 for information about Charles Mann



children & families

UNLESS WE ARE ABLE TO HELP YOUNG CHILDREN FORGE A RELATIONSHIP WITH PLANTS AND ANIMALS DURING THESE EARLY YEARS, THE LINK WITH THE NATURAL WORLD JUST MIGHT NOT HAPPEN.

Bonnie Drexler

Studying nature through a computer can't compare with catching real frogs, smelling live flowers (even skunk cabbage), or following rabbit tracks through the snow. Unless we are able to help young children connect with plants and animals during their early years, their link with the natural world just might not happen. "Nature deficit disorder" is the way author Richard Louv describes this disconnection in his recent book, *Last Child in the Woods* (Algonquin Books, 2006).

Since its founding over 100 years ago, New England Wild Flower Society has been encouraging children to learn about their plant and animal neighbors. This fall and winter we are pleased to offer children and their families many opportunities to step outside and connect with the big beautiful world of nature.

You and your children can explore Garden in the Woods looking for turtles and frogs in early fall, track animals in the snow along an icy brook in mid-winter, and search for the first salamander eggs to appear in our ponds in early spring. Students plant seeds, build experiments, and make crafts to take home, while learning about the nature all around us. We've got the cure for "nature deficit disorder." It's just outside the door.



Bonnie Drexler enjoys her job as Program and Volunteer Manager at New England Wild Flower Society because it allows her to share her love of nature with people of all ages. She is the author of *Bugology* and the recipient of the National Garden Club of America's Hull Award for Environmental Education of Youth. This is her 13th year at Garden in the Woods.

HOORAY FOR HERPS!

When naturalists refer to "herps," they mean amphibians and reptiles (herpetofauna), wonderful creatures that play an important part in our ecosystems. Do you know which reptiles and amphibians live in our woods? Which ones have slimy skin? Which ones lay eggs with leathery shells? Which ones can we find at the Lily Pond? We will explore the Garden and do some pond-dipping at the Pond. After the walk, we'll have a snack and make a "Book of Herps" to take home.

Tuesday, September 25, 3:30–5:30 p.m.
Garden in the Woods, Framingham, MA

Children in Grades 1–3
Course Code: CHP3500

Instructor: Jini Foster
Fee: \$12M/\$14NM per person
Limit: 12

LOOK HIGH, LOOK LOW

What different plants and animals will we find as we explore the Garden's high, dry ridges and its low, swampy spots? Who lives up in the tops of trees and down under the lowest rotting logs? What mysteries can we solve using binoculars and magnifying glasses? We will use a simple map to find high and low elevations and then guide ourselves through the Garden. Limber up your necks to look up and down and get a different view of nature's wonders. Following our walk, we will enjoy a natural snack and customize our own maps to take home.

Sunday, September 30, 1:30–3:30 p.m.
Garden in the Woods, Framingham, MA

Family Program: Children with Adult Companion
Course Code: FAM5100
Instructor: Bonnie Drexler
Fee: \$7M/\$8NM per person (for each adult and each child)
Limit: 24

SWEET TOOTH

Learn to make your own maple syrup in "Backyard Sugaring." See page 16.



NATURE'S WIZARD SCHOOL

Do you love Harry Potter and enjoy exploring secrets of the forest? Join our group of student wizards as we learn some of nature's magical tricks. We will study plants with special powers, concoct "potions," make "quicksand" in a bottle to take home, find a magic wand, and make a special quill pen to write with in your own book of "spells." Discover the mystery and magic right here in our own woodlands.

Tuesday, October 16, 3:30–5:30 p.m.
Garden in the Woods, Framingham, MA

Children in Grades 3–5
Course Code: CHP9000
Instructor: Bonnie Drexler
Fee: \$12M/\$14NM
Limit: 12

EXPERIMENT!

Are you always asking, "What would happen if ...?" Now is your chance to try some exciting experiments and discover some answers. Using everyday items like eggs, flowers, soap, food coloring, ice, yeast, baking soda, fruit, vinegar, salt, oil, and milk and experimenting with mixtures, different temperatures, and pressure, who knows what we can discover! Bring your curiosity, wear old clothes, and prepare for some fun.

Wednesday, November 14, 3:30–5:30 p.m.
Garden in the Woods, Framingham, MA

Children in Grades K–2
Course Code: CHP6250
Instructor: Bonnie Drexler
Fee: \$12M/\$14NM per person
Limit: 12

children & families

FULL-MOON NIGHT HIKE

Near the night of the “Beaver Moon,” we will venture out into the dark forest to enjoy the nighttime sights, smells, and sounds. Who is still awake? What stars or planets can we spot? What tricks can we use to find our way? After our walk, we will enjoy hot cocoa and make a booklet of full-moon activities for months of full moons to come.

Monday, November 26, 6:30–8:30 p.m.

Garden in the Woods, Framingham, MA

Family Program: Children with Adult Companion

Course Code: FAM6500

Instructor: Bonnie Drexler

Fee: \$7M/\$8NM per person (for each adult and each child)

Limit: 24

HOLIDAY NATURE CRAFTS

Using the “gifts” we find in nature, let’s create gifts for our friends and families for the holidays. Learn how to string seed pods and cranberries to make chains for a tree or to feed the birds. We will set up a natural print shop to make our own wrapping paper, gift tags, and greeting cards. And we’ll pot up a topiary wreath that will continue growing for years. With a variety of materials from the woods, we will make special gifts for special people, and at the same time learn about plant conservation. Join us to combine crafts, beauty, conservation, and fun!

Grades K–1, Thursday, December 6, 3:30–5:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CHP7101

Instructor: Bonnie Drexler

Fee: \$14M/\$16NM (includes materials)

Limit: 12

Grades 2–5, Friday, December 7, 3:30–5:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CHP7102

Instructor: Bonnie Drexler

Fee: \$14M/\$16NM (includes materials)

Limit: 12

FAMILY FUN

Build a rustic garden bench, table or trellis together. See page 21.

MICROSCOPE MAGIC

Our easy-to-use, powerful stereo microscopes will allow us to zoom in for a close look at some of nature’s most magical creations. How would a flower’s petal, a butterfly’s wing, or a feather look 40 times bigger? Are you brave enough to face a giant centipede or spider? We will take a brief walk outside to collect a few winter twigs, buds, and over-wintering insects to examine too. Each child should bring three small objects from home to observe under high magnification.

Thursday, January 24, 3:30–5:30 p.m.

Garden in the Woods, Framingham, MA

Children in Grades 1–3

Course Code: CHP6300

Instructor: Bonnie Drexler

Fee: \$12M/\$14NM per child

Limit: 12

WINTER WONDERS WALK

Come to Garden in the Woods to see a puppet show about winter survival, make a “track-finder,” walk through the wintry woods, and enjoy hot drinks and a winter craft activity. We will hike down into the snowy woods, over an icy brook, and beside a meadow looking for signs of winter residents and their activities. Learn how our foxes, rabbits, squirrels, turtles, frogs, trees, and wildflowers survive the long, snowy months.

Sunday, January 27, 1:30–3:30 p.m.

Garden in the Woods, Framingham, MA

Family Program: Children with Adult Companion

Course Code: FAM1800

Instructor: Tracy Phipps

Fee: \$7M/\$8NM per person (for each adult and each child)

Limit: 24

FOR THE BIRDS

Our feathered friends could use a little help from humans this time of year. Come to the Garden to learn how some birds survive the cold and ways we help them. How do bird beaks, feet, and feathers work to keep these little bundles of energy alive? How do they find food, water, and shelter when the temperatures fall so low? We will build several kinds of bird feeders and make a mini field guide to help us identify the birds that might pay you a call.

Sunday, February 10, 1:30–3:30 p.m.

Garden in the Woods, Framingham, MA

Family Program: Children with Adult Companion

Course Code: FAM4200

Instructor: Leslie Wood

Fee: \$7M/\$8NM per person (for each adult and each child)

Limit: 24

WEEK OF WINTER WONDERS

The winter woods are alive with plant and animal wonders. Become a winter naturalist and learn to track animals in the snow, find how plants and animals survive the deep freeze, plant a “winter-come-to-life garden,” play games, hear stories, and create nature crafts. We will explore a different area of our 45-acre Garden each day, so please wear boots and dress for the weather.

Grades K–3, Tuesday–Friday,

February 19–22, 10:00 a.m.–12:00 noon

Garden in the Woods, Framingham, MA

Course Code: CHP8000

Instructor: Bonnie Drexler

Fee: \$70M/\$80NM

Limit: 12



children & families

WEATHER WATCHERS

Do you know how to tell tomorrow's weather by looking at today's sunset? How are tornadoes formed? What does "wind chill" really mean? As winter gives way to spring, we will take a look at the tools and skills used to study and predict changes in the weather. Build a weathervane and a rain gauge, create a cloud chart, and find out how to predict the weather using a home-made barometer.

Tuesday, March 25, 3:30–5:30 p.m.

Garden in the Woods, Framingham, MA

Children in Grades 2–5

Course Code: CHP6400

Instructor: Bonnie Drexler

Fee: \$12M/\$14NM per person

Limit: 12

SALAMANDER CELEBRATION

Join our annual celebration of this shy and beautiful woodland creature. Come to learn about several special kinds of salamanders that live at Garden in the Woods. Some may even live in your own backyard. We will enjoy a puppet show and a short slide program, and then walk to a vernal pool to seek out some salamanders and their eggs. Children will make a salamander craft and a life cycle flip-book to take home.

Sunday, March 30, 1:30–3:30 p.m.

Garden in the Woods, Framingham, MA

Family Program: Children with Adult Companion

Course Code: FAM3600

Instructor: Bonnie Drexler

Fee: \$7M/\$8NM per person (for each adult and each child)

Limit: 24

FALL FAMILY FESTIVAL

Come to the Garden with your family to join our fall festivities. We are planning activities for all ages to celebrate this beautiful time of autumn color and ripening at Garden in the Woods. Go on a scavenger hunt to seek out some fall treasures, make a miniature garden in a dish to take home, meet some surprise creatures, and learn about nature's animal adaptations in one of our live animal programs.

Sunday, October 14, 12 noon–4 p.m. (rain or shine)

Live Animal Programs in the Education Center are included with regular Garden in the Woods admission fee. Space is limited; tickets distributed on a first-come basis.

ANIMAL ADVENTURES

Education Center, 1–2 p.m.

How adventurous are you? Would you like to meet a wild cat called a Canadian lynx? Are you brave enough to meet reptiles such as a giant anaconda snake or a six-foot monitor lizard face to face? Join us as Ed Laquidara, animal specialist, introduces us to a variety of creatures and explains their roles in their ecosystems.

Presented by Animal Adventures, Bolton, MA

CURIOUS CREATURES

Education Center, 2:30–3:30 p.m.

This lively program introduces an incredible diversity of creatures, describing their particular adaptations and secrets of survival. You will meet an albino Burmese python, a blue and gold macaw, an African pygmy hedgehog, rain forest tree frogs, and many other curious creatures. This program teaches respect and appreciation for all creatures that walk, crawl, and slither on the earth.

Presented by Curious Creatures, Groveland, MA



"BIG BUGS" IS BACK IN 2008

Dave Rogers' *BIG BUGS* sculptures invade Garden in the Woods starting July 12. Listen for more buzz this spring.



faculty biographies

Raymond Abair is a specialist on ferns and fern allies, orchids, lichens and mosses. He received a Certificate in Native Plant Studies from the Society. Ray's special interest is the woodferns and their hybrids in the genus *Dryopteris*.

Jack Alexander is plant propagator at the Arnold Arboretum and a third-generation nurseryman. He is a Fellow of the International Plant Propagators' Society and in 2004 received their prestigious Award of Merit. Jack is also a recipient of the Massachusetts Horticultural Society's Jackson Dawson Medal.

Roger Bachman is a retired engineer who volunteers his time throughout the year at Massachusetts Audubon's Drumlin Farm Sanctuary. He has been the mainstay of the Sanctuary's maple sugaring operation for many years.

Roland "Boot" Boutwell is a freelance itinerant naturalist who teaches nature programs and leads field trips for New England Wild Flower Society, Massachusetts Audubon, Appalachian Mountain Club, Friends of the Middlesex Fells, and others. In 2000, he completed the Society's Certificate in Native Plant Studies and has been teaching the core course in Native New England Shrubs ever since.

Rolf Briggs, a certified arborist and registered consultant, is founder and president of Tree Specialists, Inc., in Holliston, Massachusetts. He consults regularly with green industry professionals, nurseries, municipalities, and homeowners on planting and aftercare practices.

Frances Clark is principal of Carex Associates of Lincoln, Massachusetts, specializing in botanical inventories, stewardship plans, educational programs, and community outreach. She has master's degrees from Tufts University in urban and environmental policy and from the Longwood Program in Ornamental Horticulture at the University of Delaware.

Dennis Collins is curator of plant collections at Mount Auburn Cemetery in Cambridge, Massachusetts.

Bryan Connolly is a botanist and a Ph.D. candidate at the University of Connecticut. Formerly the Invasive Plant Atlas Survey Coordinator for the Society, Bryan is also a vegetable and chicken farmer and heirloom seed saver.

Mark D. Cooperman is an ecologist and landscape designer. He is principal of EcoTerra, LLC, a firm specializing in environmental restoration and ecologically based landscape architecture, planning, and design.

William Cullina is Director of Horticultural Research for the Society. Bill's popular books include *New England Wild Flower Society Guide to Growing and Propagating Wildflowers of the United States and Canada*; *Native Trees, Shrubs, and Vines—a guide to using, growing and propagating North American woody plants*; and *Understanding Orchids*. His latest work, scheduled for publication in February of 2008, is on grasses, ferns, and mosses.

Natalie DeNormandie is a landscape architect and principal of SeagoDesign, specializing in application of ecological principles, native plantings, and planting plans. While obtaining her Master in Landscape Architecture degree at the Harvard Graduate School of Design, Natalie won the Boston Society of Landscape Architecture's Student Design Competition.

Mario DiGregorio is a cofounder of Cape Cod and Islands Botany Club, with 25 years of environmental consulting experience, specializing in rare plant ecology and project design mitigation. He was the owner of Sabatia, Inc., an environmental consulting firm, and is a member of the NEPCoP-Endangered Species Task Force. Mario is the author of three books on New England botany, including *A Vanishing Heritage: Wildflowers of Cape Cod*. In 2001, he received the Society's Massachusetts State Award.

Bonnie Drexler: See page 22.

Laura Eisener is owner of Laura D. Eisener Landscape Design, Saugus, Massachusetts. She is Massachusetts editor for *People, Places, and Plants*, and teaches at the Arnold Arboretum Landscape Design Institute of Harvard University.

Ted Elliman is New England Wild Flower Society's Vegetation Management Coordinator and Invasive Plant Atlas of New England (IPANE) Volunteer Coordinator. He has worked on botanical surveys for the U.S. Park Service and Forest Service, as well as in southwestern China.

Brett Engstrom is a field naturalist and botanical consultant in Marshfield, Vermont, compiling inventories of natural communities and rare plants in New Hampshire and Vermont. Brett received his B.S. degree in biology from Earlham College in Indiana and his M.S. degree from the University of Vermont in the field naturalist program.

Nancy Eyster-Smith, Ph.D., is Associate Professor of Natural and Applied Sciences at Bentley College in Waltham, Massachusetts. Her research interests include ecology, botany, conservation biology, and natural history, and she conducts research on the ecology of Cape Cod grasslands and Midwestern tallgrass prairies.

Elizabeth Farnsworth, Ph.D., is coauthor of the recently revised *Peterson Field Guide: Ferns of Northeastern and Central North America*. She has been a Bullard Research Fellow at the Harvard Forest, and is former Senior Research Ecologist for New England Wild Flower Society.

Jini Foster, naturalist and children's guide at Garden in the Woods for the past four years, combines her dedicated study of vernal pools and all things "pondish" with her interest in children's education.

Kanchi Gandhi, Ph.D., edits the *International Plant Name Index* for the Harvard University Herbaria. He is also nomenclature editor for *Flora of North America*; associate editor for *Rhodora*, the journal of the New England Botanical Club; and associate nomenclature editor for *Taxon*, *International Journal of Plant Taxonomy, Phylogeny and Evolution*.

Carol Govan is a professional artist, teacher, and graduate of the Society's Certificate in Native Plants Studies program. Her insight has engaged scores of students at the DeCordova and Danforth Museums, Arnold Arboretum, New England Wild Flower Society, and Wellesley College Botanic Gardens to explore the connection between art and science, and the observational skills needed for both.

Arthur Haines is New England Wild Flower Society Research Botanist and author of *The Flora of Maine*. He is also a regional reviewer for the *Flora of North America* project and a contributor for the genera *Euthamia* (Asteraceae) and *Exochorda* (Rosaceae). Currently, Arthur is writing the new *Flora of New England*, scheduled for publication in 2008.

Frank Hamm is a furniture maker specializing in garden structures and rustic furnishings. Inspired by the grace and beauty of wood, he endeavors to create harmonious, sculptural forms through careful coordination of the complex shapes of individual wood cuttings.

Dale Hendricks is co-owner and founder of North Creek Nurseries, Landenberg, Pennsylvania, a propagation nursery supplying eastern North American natives and cultivars to wholesale and retail nurseries, and for highway, municipal, and conservation restoration projects. Dale has focused on propagating native perennials, grasses, and ferns for more than twenty years.

Deborah Howe is a landscape architect and principal of Lighthall Company, a landscape design firm. Pruning shrubs is her special passion.

Jen Kettell is Horticultural Technologist at the Arnold Arboretum of Harvard University, where she oversees the Leventritt Shrub and Vine Garden. She is a certified arborist and an accredited organic land care professional. She began work at the Arboretum as an intern in 2003 after a career in health services.

Keith T. Killingbeck, Ph.D., is Professor of Biological Sciences at the University of Rhode Island. His research focuses on the ecology and physiology of plant nutrient dynamics in a wide variety of ecosystem types.

Elizabeth Kneiper is a lichenologist and curator of nonvascular plants for the New England Botanical Club, Harvard Herbarium. Her extensive study of the 19th-century lichenological collections in the Boston metropolitan area and subsequent comparisons with the contemporary flora have revealed profound changes brought about by pollution and habitat destruction.

Liz Krieg is a horticulturist and owner of Rising Sun Greenhouses and Landscape Company in Bethel, Vermont. She offers landscape consultation and design services throughout New Hampshire and Vermont.

faculty biographies

William Kuriger, Ph.D., is a botanist, wetland scientist, and principal of W.E. Kuriger Associates, an environmental consulting company specializing in water and air pollution control.

Scott LaFleur is Senior Horticulturist for New England Wild Flower Society. A native of Rye, New Hampshire, Scott owned and operated a landscape design company, Garden Buds, in the Seacoast region before joining the Society's Horticulture Department in 2005.

Eric Larson is manager of the Marsh Botanic Gardens at Yale University in New Haven, Connecticut. Trained at Longwood Gardens' Professional Gardeners Program, Eric has more than 20 years of public garden and horticultural experience.

Ellen S. Lathi, MD, is a board-certified neurologist and is the Director of the MS Center at St. Elizabeth's Medical Center. She is also a student in the Landscape Design Institute program at the Arnold Arboretum.

Michele Laura is a Certified Yoga Teacher with more than 20 years of yoga experience. She is a life management coach, a dance fusion instructor, and a former martial arts instructor.

Mary Lincoln is an avid amateur bryologist and founder of High Pond Farm Seminars, a nonprofit natural history education organization in Plymouth, New Hampshire.

Greg Lowenberg, Ph.D., has been the Society's Education Director since 1998. He is a plant ecologist, conservationist, and avid gardener.

Don Lubin has been leading classes and field trips for the Society since 1998, often co-teaching with Ray Abair. He also grows 45 mostly native ferns in his small urban garden, collects rare specimens for herbariums, surveys conservation areas for pteridophyte biodiversity, and maintains a fern Web site.

Dennis Magee is co-author of the newly revised *Flora of the Northeast* and vice-president of Normandeau Associates, an environmental consulting firm based in Bedford, New Hampshire.

Christopher Matrick is Forest Botanist for the White Mountain National Forest in New Hampshire. He is former Senior Conservation Programs Manager for the New England Wild Flower Society.

Steve McGrath is a freelance nature photographer and digital photography teacher who teaches both adults and children. He studied through the New York Institute of Photography and has been creating images since 1991.

Roseann McGregor is a freelance nature photographer and digital photography teacher. She has won numerous competitions since 2002 with her photographs of nature and landscapes.

Jim McSweeney, Certified Massachusetts Arborist and Horticulturist, is owner of Hilltown Tree and Garden in Chesterfield, Massachusetts.

Ed Petcavage is a landscape architect and owner of a "natural-design" firm located on a Weston, Massachusetts. He is a four-time recipient of the Society's Certificate in Native Plant Studies, and has served as Tree Warden for his town.

Tracy Phipps has taught children's classes at Garden in the Woods for the past six years. A graduate of Framingham State College, she is now an elementary school teacher. In the summer, you will find her at the pond, dipping for water bugs with the Cattail Nature Camp students or out in her kayak. Come wintertime, she hits the trail in her snowshoes looking for animal tracks.

Tia Pinney has served as Naturalist at Massachusetts Audubon Society's Drumlin Farm Sanctuary for the past 12 years. She also has a longtime interest in quilting, felting, and using natural dyes.

Sue Reed is a landscape architect whose residential practice focuses on ecological design based on an intimate knowledge of the region's unique geologic, historic, biologic, and cultural features. She has taught at the Conway School of Landscape Design since 1987.

Dave Ropes is a Certified Arborist for Tree Specialists, Inc., in Holliston, Massachusetts. Dave's special interests are proper pruning techniques and understanding/treating stressed trees.

Scott C. Scarfone, ASLA, is a landscape architect and certified professional horticulturist. He is the principal and founder of Oasis Design Group, a landscape architectural design firm. He has a broad background in design and horticulture and has worked for design firms, public gardens, and landscape contractors.

Rolf Schilling is Horticulturist and Plant Records Coordinator for New England Wild Flower Society, working at the Society's headquarters and botanical garden, Garden in the Woods. His work in garden design and installation spans many years, in both private and public gardens. Rolf's special interests include ethnobotany and plant systematics.

Karen Sebastian is a landscape architect and principal of Karen Sebastian, LLC, Landscape Architecture. Karen's firm specializes in residential design, working closely with clients to create landscapes to meet their individual needs. Karen has served as an adjunct professor at the University of Massachusetts and regularly teaches courses for the Society.

Tom Smarr is Director of Horticulture for New England Wild Flower Society. He was formerly horticultural education specialist for the Center for Urban Horticulture in Seattle, Washington.

Dori Smith is a landscape designer whose business, Gardens for Life, specializes in non-toxic, low-maintenance, and drought-tolerant designs, including bird, butterfly, and hummingbird habitats. She is accredited as an organic land care professional by the Northeast Organic Farming Association.

Judith Sumner, Ph.D., is a botanist teaching a wide range of courses. Her emphasis is on plants within a cohesive evolutionary framework. She received a Smithsonian Museum of Natural History post-doctoral award and has been a visiting researcher at Kew Gardens and the British Museum. She is author of *American Household Botany* and *The Natural History of Medicinal Plants*.

Arieh Tal is a naturalist and photographer who has been studying the New England flora with camera and field guides for more than twenty years. He is a regular instructor and field trip leader, and will be leading a Society travel program to the prairies of his home state of Missouri in 2008.

Jef Taylor is a lifelong naturalist and wildlife care specialist, for the past several years at Massachusetts Audubon's Drumlin Farm Sanctuary and Zoo New England. He has long had an interest in fungi and is a member of the Boston Mycological Society.

Paul Tukey is the founding editor and publisher of *People, Places & Plants* magazine and author of *The Organic Lawn Care Manual*. He was named 2006 Horticultural Communicator of the Year by the American Horticultural Society.

Rick Van de Poll, Ph.D., is the principal of Ecosystem Management Consultants of Sandwich, New Hampshire. He was a full-time faculty member at Antioch New England Graduate School for 15 years, and is now an adjunct faculty member at Plymouth State University, where he teaches wetlands science and policy.

Ted Watt is a naturalist and educator with the Hitchcock Center for the Environment in Amherst, Massachusetts.

Joan Weber has long been inspired by natural beauty, but a course at an art museum was the catalyst that sparked her desire to express her creativity through the eyes of a camera. Joan won a New England Wild Flower Society photo contest and has exhibited her photographs in the MetroWest area of Massachusetts.

Robin Wilkerson is a naturalist and horticulturist. She has a large vegetable garden, perennial borders, herb gardens, a native woodland garden, and a small flock of chickens that help her weed.

Leslie Wood is a naturalist, nature photographer, avid hiker, and holistic nurse. She has worked at Audubon headquarters in Massachusetts on the naturalist hotline and is enthusiastic about sharing the beauty and wonders of nature. She has been a nature guide for both children and adults and has taught a variety of classes at the Society's Garden in the Woods.

VISIT, LEARN, GROW

New England Wild Flower Society's NATIVE PLANT NURSERIES offer the largest selection of native plants in the Northeast

- All purchases support the Society's plant conservation mission
- Choose native plants for environmentally responsible horticulture

- Shop two locations: Garden in the Woods and Nasami Farm
- Order native seeds from January–March at www.newenglandWILD.org

Garden in the Woods

Native Plant Botanic Garden & Headquarters

"... an eye-popping showcase for our native plants ... there can be few more beautiful places on the planet." Chet Raymo, *The Boston Globe*

- 45 acres, 1,500 native plant species and cultivars native to North America
- 200 rare and endangered species
- New England and North American habitats in breathtaking naturalistic displays
- Rare Plant Garden, Rock Gardens, Pond, Woodlands, Invasive Plant "Jail" and More
- Guided tours on weekdays at 10 a.m.; weekends at 2 p.m.
- Family activities, events, and classes
- Living Museum accredited by American Association of Museums



ADDRESS/CONTACT INFORMATION

180 Hemenway Road, Framingham, MA 01701
508-877-7630; FAX 508-877-3658; TTY 508-877-6553
www.newenglandWILD.org

HOURS

Garden trails open daily, 9–5, Sep 1 through Oct 31, 2007; Nov 1–30 trails are open 10–4, Thursday–Monday for members only. Daily, 9–7 from Apr 15–Aug 31, 2008. Offices open Mon–Fri, 9–5, year-round.

DIRECTIONS

From north, south, and east: Rte. 128 to Rte. 20 west; 8 miles on Rte. 20 to Raymond Road (2nd left after traffic lights in south Sudbury); 1.3 miles to Hemenway Road. From the west: Massachusetts Tpk. (Exit 12) to Rte. 9 east; go 2.4 miles to Edgell Road exit; turn left at the lights at the top of the exit ramp onto Edgell Road (Rte. 9 overpass); go 2.1 miles to the lights; take right onto Water Street and left onto Hemenway Road. Go 1 mile (the road changes to Eisenhower Road). Turn left onto Catherine, and left onto Hemenway after one block (up a one-way road) to the entrance on the right.

ADMISSION (valid through Oct 31, 2007)
Adults \$7; Youths (6–18) \$3; Seniors (65+) or Students (with I.D.) \$5. Members and children under 6 admitted free.

WHEN YOU VISIT

Please show your membership card at the Visitor Center. Due to the unique Garden collection, we must prohibit pets, bicycles, and smoking. Strollers are permitted. Picnicking allowed in Education Pavilion only.

GROUP TOURS

By reservation only at 508-877-7630, ext. 3302, or bdrexler@newenglandWILD.org.

ACCESSIBILITY

Main buildings and most restrooms wheelchair accessible. Garden cart tours by advance registration at registrar@newenglandWILD.org.

LAWRENCE NEWCOMB LIBRARY

A horticultural and botanical library emphasizing native plants. Open daily, Mon–Fri, 9–5. Members have borrowing privileges.

MUSEUM STORE

Garden and Botanical Books, Children's Gifts, Nature Gifts, Tools and More. Shop online at www.newenglandWILD.org. Your personal level membership earns a 10% discount on most purchases. Native plants sold Apr 15–Oct.

MUSEUM STORE HOURS: Apr 15–Aug 31, open daily, 9–7; Sep 1–Oct 31, open daily, 9–5; Nov 1–Dec 24, open Thu–Mon, 10–5
CLOSED Thanksgiving Day.
OPEN BY APPOINTMENT Dec 25–Apr 14. Call 508-877-7630, ext. 3601.

GARDENERS DAY FESTIVAL

Saturday, September 15

10 a.m.–3 p.m., rain or shine
(with Garden in the Woods admission)

The Native Plant Doctor is IN all day!
Bring your questions.

- 10 a.m. Tree Planting Demo
- 11 a.m. Paul Tukey–Organic Lawn Care
- 12 p.m. Best Native Plants for Fall Demo
- 1 p.m. Laura Eisener–Native Bulbs
- 2 p.m. Controlling Invasives Demo

Hundreds of native plant species for sale

Nasami Farm Native Plant Nursery

75-acre Native Plant Nursery and Sanctuary, just minutes away from Interstate 91

- Beautiful greenhouses and retail area
- Native plant borders and stock beds
- FREE admission, garden demos and parking

ADDRESS/CONTACT INFORMATION

128 North Street, Whately, MA 01373
413-397-9922; Fax 413-397-9944; www.newenglandWILD.org

HOURS

Open weekends, Thursday–Sunday, 9–5, September 6–October 7, 2007; April 17–June 15, 2008.

DIRECTIONS

For directions from Route 2, Massachusetts Turnpike, or Route 91, see www.newenglandWILD.org or call 413-397-9922. **Local directions:** From Route 5/10 (State Road) in Whately, turn west onto Christian Lane (at blinking yellow light) toward Whately Center and Quonquont Farm. Follow Christian Lane to the end (1/2 mile) and then bear right at the "Y" intersection onto North Street. At second fork stay left and continue on North Street for 1.2 miles to Nasami Farm. The entrance is on the right, just after a sharp corner.



Go GREEN & Save Some GREEN

NASAMI FARM FREE Demos
Sundays at 1 p.m.

- Sep 9, **Native Ornamental Grasses**—with Landscape Designer Owen Wormser. Learn how to use ornamental grasses in your New England garden.
- Sep 16, **Best Native Plants for Fall Color**—with Nasami's Mariya Navazio. Mariya shares her favorite native plants for a colorful autumn display.
- Sep 23, **Preparing Your Plants for Winter**—with Nasami staff. Should you leave fall foliage or cut it back? Mulch or rake? Be prepared!

No reservations needed

society information

New England Wild Flower Society

For more than 100 years, we have worked to save temperate North American flora through fieldwork, professional and public collaboration, and education. Our vision is a future where vigorous native plant populations live in healthy, balanced, natural ecosystems—protected, enjoyed, and beneficial to all life.

OFFICERS

Chairwoman—Marjorie Greville
Treasurer—Lalor Burdick
Assistant Treasurer—Christopher R. Ely
Clerk—Patrick M. Tynan
Assistant Clerk—Anne Serrell-Jones
Executive Director—Gwen Stauffer

BOARD OF TRUSTEES

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Pamela Durrant	Mary Ann Streeter
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Conservation Director, Bill Brumback
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PCV Corps Administrative Coordinator, John Burns
Vegetation Management/IPANE Coordinator, Ted Elliman
Research Botanist, Arthur Haines

Development

Development Director, Dianne Butt
Development Associate, Heather McDonald

Education

Education Director, Greg Lowenberg
Program and Volunteer Manager, Bonnie Drexler
Registrar, Lana Reed

Horticulture

Horticulture & Botanical Garden Director, Tom Smarr
Senior Horticulturist, Scott LaFleur
Horticulturist, Rolf Schilling

Information Technology

Programmer/Analyst, Sid Koull

Marketing

Marketing & Public Relations Director, Debra Strick

Membership

Membership Director, Karen Pierce
Membership Services Coordinator, Patti Laier

Nursery

Nursery Business Director, Ron Wik
Horticultural Research Director, William Cullina
Seed Ecologist, Tristram Seidler

Nasami Farm

Propagator, Cayte McDonough
Nursery Grower, Mariya Navazio
Retail Sales Coordinator, Robin Silva

Garden in the Woods

Plant Sales Manager, Nicola Cataldo
Plant Sales Coordinator, Terry Morrow

Publications

Managing Editor, Sarah Shonbrun
Publications Manager, Lisa Mattei

Visitor Services (Museum Store)

Visitor Services Manager, Nicola Cataldo

Members Save

The ultimate membership benefit is the satisfaction of knowing you are making a difference in the health of our environment and New England's natural habitats. Additional benefits include:

- Unlimited free admission to Garden in the Woods, the region's premier native wildflower botanical garden.
- 10% discount on purchases from our native plant nurseries at Garden in the Woods and Nasami Farm.
- 10% discount on most book and gift items.
- Up to 20% discount on hundreds of courses, workshops, symposia, and field trips. **Join when you register for immediate discounts on courses.** (See course registration form on facing page.)
- Up to 50% discount and priority order period on mail-order seed purchases.
- Subscriptions to the Society's publications.
- Borrowing privileges at our 4,000-volume botanical library.
- Discounts at select New England and mail-order nurseries.

Membership levels

Individual \$50
Student \$38
Dual \$60
Family/Friends \$70
Associate \$40

For more information on Membership benefits, please call Karen Pierce, Membership Director, at 508-877-7630, ext. 3801, kpierce@newenglandWILD.org.

GIVE THE GIFT OF LEARNING

For details about sending a New England Wild Flower Society gift certificate, call 508-877-7630, ext. 3601, or visit www.newenglandWILD.org.



registration

IMPORTANT INFORMATION

Advance registration is required for all fee-based courses and is accepted on a first-come, first-served basis upon full payment. Upon registration, you will receive a confirmation letter, including course locations and any recommended reading and supplies. Early registration is encouraged; programs with insufficient registration may be cancelled three to five business days before the scheduled start date. If your requested course is filled, you will be put on a waiting list and your credit card will not be charged or your check will be returned. When space becomes available, you will be contacted according to your position on the waiting list. If we are unable to contact you, the next name on the list will be contacted, until the space is filled. You will be notified of any change as soon as possible. Please include day and evening phone numbers on the registration form. **Sorry, we cannot accept walk-in registrations.**

CANCELLATION & REFUND POLICY

SOCIETY CANCELLATIONS, CHANGES & INCLEMENT WEATHER: The Society reserves the right to cancel courses, change times or locations, and substitute instructors. If a class is cancelled by the Society, you will receive a full refund. In the event of any course change, you will be notified as soon as possible. **Courses and field trips run rain or shine.** However, in the event of extremely inclement weather, please call the Registrar, 508-877-7630, ext. 3303, to see if your course has been rescheduled. The Registrar or instructor will make every effort to contact you by telephone or email to inform you of any change. Please include day and evening phone numbers and your current email address on the registration form.

YOUR CANCELLATION & REFUND: To cancel and receive a refund, you must withdraw at least one week before a course's start date. **No refunds or transfers can be given for withdrawals within a week of the course start date, from courses already in progress, or for class sessions you have not attended. Ten percent of the registration fee (minimum of \$5) will be deducted from all refunds,** excluding classes cancelled by the Society, except where otherwise noted. No cancellation fee will be assessed if the course fee is less than \$10.

COURSE TRANSFERS

You must notify the Registrar at least one week before the start date of a course in order to transfer into a different course in the same semester. Any overcharge will be refunded; any balance due must be paid in full at the time of transfer.

EQUAL ACCESS

If you need assistance or special accommodations, please inform the Registrar, 508-877-7630, ext. 3303, at the time you register, or as soon as possible, in order to allow us to make the best efforts to meet your needs.

HOW TO REGISTER

BY MAIL

Send completed registration form with your payment to: Registrar, New England Wild Flower Society, 180 Hemenway Road, Framingham, MA 01701. Use a separate copy of the form for each applicant. Please do not mail cash.

BY TELEPHONE or FAX

Credit card registrations (MasterCard or Visa) can be made by calling the Registrar at 508-877-7630, ext. 3303, or by faxing to 508-877-3658.

Registration Form *Fall/Winter 2007*

Name of person filling out form:

Participant's name (if different): Age (if under 18):

Address:

City, State, ZIP:

Email:

Phone: Day Evening

Course code	Course name	Start date	Fee

I want to join the Society. Please indicate membership level fee here (see page 28).

I would like to enroll in the Certificate Program (see page 2). \$30 (This is a one-time fee.)

Total: \$

PAYMENT

Check enclosed (payable to NE Wild Flower Society)

Credit card #

Visa MasterCard Exp. date

Name on card

Billing address (if different from above)

Signature

MEMBERSHIP STATUS & POLICY STATEMENT

I am a current member of New England Wild Flower Society:

Yes, membership # No

I am a current a member of: (Cosponsor organization)

I have read and accepted the Cancellation & Refund Policy (at left). Yes No

protect

CONCERNED ABOUT CONSERVATION?
Learn how you can help preserve critical habitats
with "Conservation Biology" on page 16.

Online at www.newenglandWILD.org

●
BECAUSE
ALL LIFE DEPENDS
ON PLANTS
●



NEW ENGLAND WILD FLOWER SOCIETY
HEADQUARTERS & GARDEN IN THE WOODS
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