



CALENDAR OF EVENTS

SEPTEMBER—NOVEMBER 2014

UNITED STATES BOTANIC GARDEN

The United States Botanic Garden

The United States Botanic Garden (USBG) is a living plant museum. It is open daily from 10 a.m. to 5 p.m., free of charge. Exhibits interpret the role of plants in supporting earth's diverse and fragile ecosystems and in enriching human life. Established by Congress in 1820, the U.S. Botanic Garden is one of the oldest botanic gardens in North America. The Garden has been administered through the Architect of the Capitol since 1934. It is recognized as a museum and accredited by the American Alliance of Museums.

The U.S. Botanic Garden **Conservatory** is located on the National Mall at the intersection of Maryland Avenue and First Street SW, adjacent to the U.S. Capitol. The address is 100 Maryland Avenue SW, Washington, DC 20001.

The **Conservatory** houses permanent collections of plants from subtropical, tropical and arid regions and showcases orchids, medicinal, economic, endangered and Jurassic plants. From late May to mid-October, the Conservatory terrace features thematic displays.

The **National Garden** is adjacent to the Conservatory. It features a Mid-Atlantic native plant garden, Rose Garden, First Ladies Water Garden, Butterfly Garden and Amphitheater.

Bartholdi Park is across Independence Avenue from the Conservatory. Here visitors will find a tapestry of theme gardens surrounding the historic Bartholdi Fountain. The gardens suggest interesting plants and designs at a scale suitable for the home landscape.

Parking is not available at the U.S. Botanic Garden on weekdays. It is accessible by public transportation. The Federal Center SW Station on the Orange and Blue Lines of Metrorail is at Third and D Streets SW, four blocks from the USBG. Metrobuses 32, 34 and 36 stop at Independence Avenue and First Street SW, between the Conservatory and Bartholdi Park.

Free 45-minute highlight tours of the U.S. Botanic Garden Conservatory may be available on the day of your visit. Please check at the Visitor Information Desk upon your arrival. To arrange a group tour, which requires a four-week advance reservation, please call (202) 226-2055. Groups of 10 to 15 adults may reserve a free 45-minute guided tour of the Conservatory Monday through Friday.

Visit our website at www.usbg.gov.

FOR MORE INFORMATION

General Information: 202-225-8333

Register for Programs: 202-225-1116

Request Tours: 202-226-2055

Plant Hotline: 202-226-4785

Volunteer Opportunities: 202-226-1047

At a Glance

Programs are listed by starting date.

Starting Date	Time	Title	Page
SEPTEMBER			
2	10:30 a.m.	Seedlings	11
2	6:00 p.m.	Botany for Illustrators	11
3	10:30 a.m.	Sprouts	13
3	12:00 p.m.	Lunchtime Tour of the Conservatory	12
4	10:30 a.m.	Snugglers	13
4	6:30 p.m.	Rust Never Sleeps Lecture	14
6	10:30 a.m.	The Fascinating World of Carnivorous Plants Lecture	15
6	2:00 p.m.	Managing the 4 P's Workshop	16
7	2:00 p.m.	Managing the 4 P's Workshop	16
8	12:00 p.m.	Lunchtime Tour of the Conservatory	12
10	12:00 p.m.	Lunchtime Tour of the Conservatory	12
11	10:30 a.m.	Snugglers	13
11	12:00 p.m.	Apples and Pears Cooking Demonstration	17
11	6:30 p.m.	Wild Foods Lecture	17
12	11:30 a.m.	Walking with Wheat Tour	18
12	12:00 p.m.	Grow More with Less Book Talk	19
12	6:00 p.m.	Local Artist Concert Series: Paul Pfau	19
13	10:30 a.m.	Urban Agriculture: Sowing Seeds, Sowing Money Workshop	20
13	2:00 p.m.	Make Your Own Living Ornament Workshop	21
14	2:00 p.m.	Urban Agriculture: Sowing Seeds, Sowing Money Workshop	20
15	12:00 p.m.	Lunchtime Tour of the Conservatory	12
15	12:00 p.m.	Attracting Beneficial Bugs to Your Garden Lecture	22
16	12:00 p.m.	Medicinal and Poison Plants Tour	22
17	12:00 p.m.	Lunchtime Tour of the Conservatory	12
17	2:00 p.m.	The Art and History of the USBG Tour	23
18	10:30 a.m.	Snugglers	13
19	12:00 p.m.	Beatrix Potter's Gardens Lecture	23
19	6:00 p.m.	Harvest Party	24
20	10:00 a.m.	Junior Botanist Festival	25
22	12:00 p.m.	Lunchtime Tour of the Conservatory	12
23	12:00 p.m.	Apples and Pears Cooking Demonstration	17
24	12:00 p.m.	Lunchtime Tour of the Conservatory	12
25	10:30 a.m.	Snugglers	13
25	6:30 p.m.	Make Your Own Living Ornament Workshop	21
26	12:00 p.m.	True Tales from the Ginseng Trade Lecture	26
26	6:00 p.m.	Local Artist Concert Series: Ted Garber	26
27	8:00 a.m.	Garden Photography Workshop	27
27	10:30 a.m.	Walking with Wheat Tour	18
29	12:00 p.m.	Lunchtime Tour of the Conservatory	12

OCTOBER

1	10:30 a.m.	Sprouts	28
1	12:00 p.m.	Lunchtime Tour of the Conservatory	28
1	2:00 p.m.	The Art and History of the USBG Tour	29
2	10:30 a.m.	Snugglers	29
3	12:00 p.m.	Make Your Own Living Ornament Workshop	30
3	6:30 p.m.	Portrait of a Garden Lecture	31
5	2:00 p.m.	Science Fair Prep Workshop	32
6	12:00 p.m.	Lunchtime Tour of the Conservatory	28
7	10:30 a.m.	Seedlings	32
8	12:00 p.m.	Lunchtime Tour of the Conservatory	28
9	10:30 a.m.	Snugglers	29
9	12:00 p.m.	Fall Market Feasts Cooking Demonstration	33
10	12:00 p.m.	Thin Places Lecture	33

10	7:30 p.m.	Night Adventure at the USBG	34
11	3:00 p.m.	Walking with Wheat Tour	35
11	7:30 p.m.	Night Adventure at the USBG	34
12	1:30 p.m.	Alienweeds Lecture	36
13	10:30 a.m.	The History of Spices Lecture	36
13	12:00 p.m.	Lunchtime Tour of the Conservatory	28
13	2:00 p.m.	The Botany, History and Future of Chrysanthemums Lecture	37
14	12:00 p.m.	Medicinal and Poison Plants Tour	37
15	12:00 p.m.	Lunchtime Tour of the Conservatory	28
16	10:30 a.m.	Snugglers	29
17	12:00 p.m.	What Science Says About GMO Foods Lecture	38
18	9:00 a.m.	Medieval Illumination Art Workshop	38
20	12:00 p.m.	Lunchtime Tour of the Conservatory	28
22	12:00 p.m.	Lunchtime Tour of the Conservatory	28
23	10:30 a.m.	Snugglers	29
23	12:00 p.m.	Winter Greens Cooking Demonstration	39
24	12:00 p.m.	The Weather in the Supermarket Lecture	39
24	6:00 p.m.	Local Artist Concert Series: Patty Reese	40
27	12:00 p.m.	Lunchtime Tour of the Conservatory	28
29	12:00 p.m.	Lunchtime Tour of the Conservatory	28
30	10:30 a.m.	Snugglers	29
30	12:00 p.m.	The Kingdom of Rarities: Nature's Best Kept Secret	40
31	6:00 p.m.	Local Artist Concert Series: Justin Trawick	41

NOVEMBER

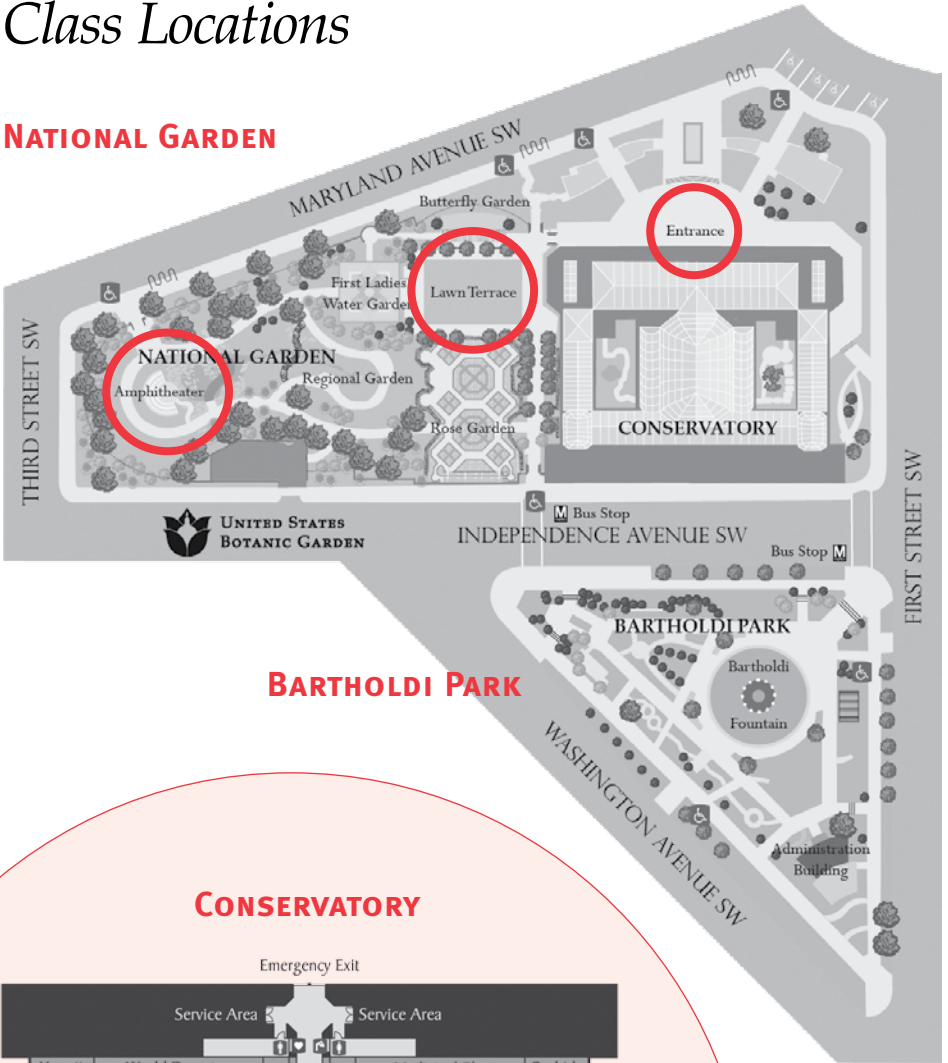
3	12:00 p.m.	Lunchtime Tour of the Conservatory	41
4	12:00 p.m.	Medicinal and Poison Plants Tour	42
5	12:00 p.m.	Lunchtime Tour of the Conservatory	41
10	12:00 p.m.	Lunchtime Tour of the Conservatory	41
11	10:00 a.m.	Sprouts Reunion!	42
13	12:00 p.m.	The Kingdom of Rarities: Nature's Best Kept Secret	43
15	10:00 a.m.	Fall Tree Tour of the Capitol Grounds	44

EARLY JANUARY

6	10:30 a.m.	Seedlings	45
7	10:30 a.m.	Sprouts	45

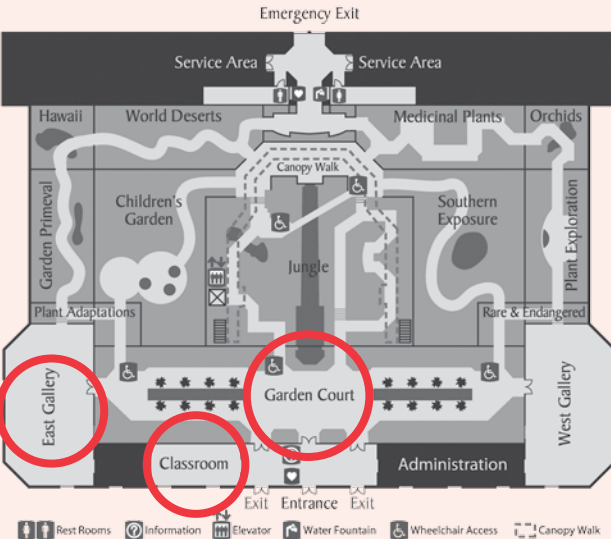
Class Locations

NATIONAL GARDEN



BARTHOLDI PARK

CONSERVATORY



SEPTEMBER 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
		Seedlings 10:30 a.m. Botany for Illustrators 6:00 p.m.	Sprouts 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m.	Snugglers 10:30 a.m. Rust Never Sleeps Lecture 6:30 p.m.		The Fascinating World of Carnivorous Plants Lecture 10:30 a.m. Managing the 4 P's Workshop 2:00 p.m.
7	8	9	10	11	12	13
Managing the 4 P's Workshop 2:00 p.m.	Lunchtime Tour of the Conservatory 12:00 p.m.		Lunchtime Tour of the Conservatory 12:00 p.m.	Snugglers 10:30 a.m. Apples and Pears Cooking Demonstration 12:00 p.m. Wild Foods Lecture 6:30 p.m.	Walking with Wheat Tour 11:30 a.m. Grow More with Less Book Talk 12:00 p.m. Local Artist Concert Series: Paul Pfau 6:00 p.m.	Urban Agriculture: Sowing Seeds, Sowing Money Workshop 10:30 a.m. Make Your Own Living Ornament Workshop 2:00 p.m.
14	15	16	17	18	19	20
Urban Agriculture: Sowing Seeds, Sowing Money Workshop 2:00 p.m.	Lunchtime Tour of the Conservatory 12:00 p.m. Attracting Beneficial Bugs to Your Garden Lecture 12:00 p.m.	Medicinal and Poison Plants Tour 12:00 p.m.	Lunchtime Tour of the Conservatory 12:00 p.m. The Art and History of the USBG Tour 2:00 p.m.	Snugglers 10:30 a.m.	Beatrix Potter's Gardens Lecture 12:00 p.m. Harvest Party 6:00 p.m.	Junior Botanist Festival 10:00 a.m.
21	22	23	24	25	26	27
	Lunchtime Tour of the Conservatory 12:00 p.m.	Apples and Pears Cooking Demonstration 12:00 p.m.	Lunchtime Tour of the Conservatory 12:00 p.m.	Snugglers 10:30 a.m. Make Your Own Living Ornament Workshop 6:30 p.m.	True Tales from the Ginseng Trade Lecture 12:00 p.m. Local Artist Concert Series: Ted Garber 6:00 p.m.	Garden Photography Workshop 8:00 a.m. Walking with Wheat Tour 10:30 a.m.
28	29	30				
	Lunchtime Tour of the Conservatory 12:00 p.m.					

OCTOBER 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 Sprouts 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m. The Art and History of the USBG Tour 2:00 p.m.	2 Snugglers 10:30 a.m.	3 Make Your Own Living Ornament Workshop 12:00 p.m. Portrait of a Garden Lecture 6:30 p.m.	4
5 Science Fair Prep Workshop 2:00 p.m.	6 Lunchtime Tour of the Conservatory 12:00 p.m.	7 Seedlings 10:30 a.m.	8 Lunchtime Tour of the Conservatory 12:00 p.m.	9 Fall Market Feasts Cooking Demonstration 12:00 p.m.	10 Thin Places Lecture 12:00 p.m. Night Adventure at the USBG 7:30 p.m.	11 Walking with Wheat Tour 3:00 p.m. Night Adventure at the USBG 7:30 p.m.
12 Alienweeds Lecture 1:30 p.m.	13 The History of Spices Lecture 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m. The Botany, History and Future of Chrysanthemums Lecture 2:00 p.m.	14 Medicinal and Poison Plants Tour 12:00 p.m.	15 Lunchtime Tour of the Conservatory 12:00 p.m.	16	17 What Science Says About GMO Foods Lecture 12:00 p.m.	18 Medieval Illumination Art Workshop 9:00 a.m.
19	20 Lunchtime Tour of the Conservatory 12:00 p.m.	21	22 Lunchtime Tour of the Conservatory 12:00 p.m.	23 Winter Greens Cooking Demonstration 12:00 p.m.	24 The Weather in the Supermarket Lecture 12:00 p.m. Local Artist Concert Series: Patty Reese 6:00 p.m.	25
26	27 Lunchtime Tour of the Conservatory 12:00 p.m.	28	29 Lunchtime Tour of the Conservatory 12:00 p.m.	30 The Kingdom of Rarities Tour 12:00 p.m.	31 Local Artist Concert Series: Justin Trawick 6:00 p.m.	

NOVEMBER 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Lunchtime Tour of the Conservatory 12:00 p.m.	4 Medicinal and Poison Plants Tour 12:00 p.m.	5 Lunchtime Tour of the Conservatory 12:00 p.m.	6	7	8
9	10 Lunchtime Tour of the Conservatory 12:00 p.m.	11 Sprouts Reunion! 10:00 a.m.	12	13 The Kingdom of Rarities Tour 12:00 p.m.	14	15 Fall Tree Tour of the Capitol Grounds 10:00 a.m.
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

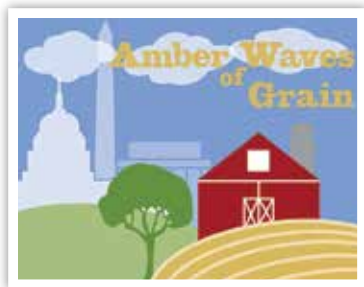


Exhibits

AMBER WAVES OF GRAIN

**CONSERVATORY TERRACE
THROUGH OCTOBER 13**

Fields of golden wheat have captured the imagination of many artists, who have featured wheat in painting and song. Wheat has also captured our palates, serving as the main ingredient in some of our most recognizable foods like bread, pasta, pizza, tortillas and cake. As one of the oldest domesticated plants, wheat laid the foundation for Western civilization and is now grown on every continent except Antarctica. Experience the beauty of this important plant on the U.S. Botanic Garden's Conservatory Terrace. Learn how the amazing diversity of wheat has led this simple grain to permeate our art, culture and cuisine.



THIS LAND IS YOUR LAND

**CONSERVATORY EAST GALLERY
THROUGH OCTOBER 13**

This Land is Your Land showcases the beauty and diversity of plants in the United States as seen through the lens of a camera. From the mountain and prairies to the farmlands and arid lands, this display features images by female photographers from the Garden Club of America.

SEASON'S GREENINGS

**CONSERVATORY
NOVEMBER 27, 2014 THROUGH JANUARY 4, 2015**

Holiday cheer abounds at the U.S. Botanic Garden! Despite the cold winter outside, the Conservatory boasts a tropical paradise, one of the largest indoor decorated trees in Washington, D.C. and a showcase of poinsettia and their plant cousins. It wouldn't be the winter holiday season without the fantasy train display in the East Gallery, which chugs along a track through imaginative structures created with plant materials. Explore the seven seas, using lighthouses to navigate your way through this year's scenic wonderland. Many of the capital's landmark buildings, all made from natural materials, will be on display in the Garden Court. Come in from the cold and enjoy the sights, scents and sounds of *Season's Greenings*.





Programs

Programs are listed by start date.

CHILDREN'S PROGRAM

SEEDLINGS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST



Come learn just how amazing plants really are during our Seedlings class (ages 6-10). Each week will be a mix of hands-on investigations, planting projects and science-based activities. **Please note:** Students must be at least 6 years of age and accompanied by an adult. Seedlings is designed for a more advanced level of plant science education. For the benefit of all participants, we request that only children ages 6 and up attend and share in class activities.

Dates: Tuesdays, September 2, 9, 16, 23

Time: 10:30 a.m. to 12 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov*

***Please note:** Registration opens on Wednesday, August 6 at 10 a.m.

ART WORKSHOP

BOTANY FOR ILLUSTRATORS

KYLE WALLICK, USBG BOTANIST

Drawing plants with scientific accuracy requires an understanding of basic botany. Using a hands-on approach with the living plant collection at the U.S. Botanic Garden, students will learn plant morphology and taxonomy by examining and drawing the variety of plant forms, structures and functions found in the natural world. Major plant groups and algae will be covered. **Please note:** A materials list can be found with the online listing.

Dates: Tuesdays, September 2, 9, 16, 23, 30, October 7, 14, 21, 28 and Saturday, October 4

Times: 6 p.m. to 8:30 p.m. on Tuesdays and 9 a.m. to 4:30 p.m. on Saturday

Location: Conservatory Classroom

Friends: \$325

Non-Members: \$375

Pre-registration required: Visit www.usbg.gov



TOUR

LUNCHTIME TOUR OF THE CONSERVATORY

USBG VOLUNTEERS

What do manila folders, Chanel No. 5, vanilla and fossil fuels have in common? They all come from plants on permanent display in the USBG Conservatory. Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

Dates: Mondays, September 8, 15, 22, 29

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

Dates: Wednesdays, September 3, 10, 17, 24

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



CHILDREN'S PROGRAM

SPROUTS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Bring your preschooler (ages 3-5) to the U.S. Botanic Garden for plant-related fun. Each Wednesday session will have varied activities that may include a story, art activity or walk in the garden. **Please note:** Children must be accompanied by an adult. Participating children must be at least 3 years of age.

Dates: Wednesdays, September 3,
10, 17, 24

Time: 10:30 a.m. to 11:30 a.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit
www.usbg.gov*

***Please note:** Registration opens
on Wednesday, August 6 at 10 a.m.



PARENT & CHILD PROGRAM

SNUGGLERS

USBG VOLUNTEER

Do you have a tiny treasure in a snuggly? Looking for ways to get out of the house, and learn? Join us each Thursday for a 45-minute guided tour of the Conservatory. Each week will be a different exploration. This program is designed for parents and care providers who have a tiny one in a snuggly. **Please note:** Due to our narrow paths and the nature of this program, we cannot support strollers or older siblings.

Date (*Choose any or all of the following*): Thursday,

September 4, 11, 18, 25

Time: 10:30 a.m. to 11:30 a.m.

Location: Conservatory
Garden Court

FREE: Pre-registration
required: Visit www.usbg.gov





LECTURE

RUST NEVER SLEEPS: A GLOBAL APPROACH TO FIGHTING DEADLY DISEASES OF WHEAT

*RONNIE COFFMAN, INTERNATIONAL PROFESSOR OF PLANT BREEDING & GENETICS,
DIRECTOR OF INTERNATIONAL PROGRAMS, COLLEGE OF AGRICULTURE & LIFE SCIENCES,
CORNELL UNIVERSITY AND WINNER OF THE 2013 WORLD AGRICULTURE PRIZE*

Stem rust has plagued wheat farmers for millennia, but new superstrains coming out of East Africa have the potential to overcome 80% of the world's wheat crop. Dr. Ronnie Coffman, the director of the Durable Rust Resistance in Wheat Project, will outline the challenges faced by this international consortium of scientists and some of the successes in securing the world's wheat crop, especially among smallholder farmers in Asia and Africa.

Date: Thursday, September 4

Time: 6:30 p.m. to 8 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

LECTURE

THE FASCINATING WORLD OF CARNIVOROUS PLANTS

TODD BRETHAUER, USBG SCIENCE EDUCATION VOLUNTEER

Few plants fascinate young and old alike more than carnivorous plants. The adaptation and ability of these 700+ plant species allows them to capture and digest insects and other small animals, which enables them to grow in nutrient poor soils. Learn about the evolution, history, ecology and physiology of the carnivorous plants of the world and how modern science is being applied to better understand them. Get hints on how to keep your carnivorous plants healthy and happy at home. Discover which carnivorous plant was a favorite of President Thomas Jefferson and which carnivorous plant was used by the surgeons in General George Washington's Revolutionary War Army.

Date: Saturday, September 6
Time: 10:30 a.m. to 12 p.m.
Location: Conservatory Classroom
FREE: Pre-registration required:
Visit www.usbg.gov



Nepenthes bicalcarata



Sarracenia leucophylla x alata

Todd Brethauer

Todd Brethauer



WORKSHOP

MANAGING THE 4 P'S: POLLINATORS, PARASITES, PREDATORS & PESTS



NATIONAL CENTER FOR
APPROPRIATE TECHNOLOGY

**REX DUFOUR, NATIONAL CENTER FOR
APPROPRIATE TECHNOLOGY**

This workshop will provide participants with information about creating urban habitat for a range of pollinators, parasites and predators, and how to conserve these beneficials. It will also discuss some common pests, and approaches to managing them by supporting a diverse habitat and avoiding use of toxic chemicals. The presentation will include some interactive discussion on pest/beneficial identification as well as resources available to support beneficial organism habitat and ecological pest management. Please note: Program offered on Sunday, September 7 is a repeat of the program offered on Saturday, September 6.

Rex Dufour has been with the National Center for Appropriate Technology since 1994, and opened a new CA office for NCAT in 2001. The focus of his work is on organic and ecological pest management, ecological soil management, farmscaping, and training agriculture professionals about organic agriculture. Rex graduated from The Colorado College with a B.A. in Biology and has a M.S. in Integrated Pest Management from UC Riverside. He spent 9 years working in sustainable development and pest management in Thailand with the Peace Corps and the United Nations, and in Laos with the US State Department. Rex graduated from The Colorado College with a B.A. in Biology and has a M.Sc. in Integrated Pest Management from UC Riverside.

Date: Saturday, September 6

Time: 2 p.m. to 4 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

Date: Sunday, September 7

Time: 2 p.m. to 4 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

COOKING DEMONSTRATION

APPLES AND PEARS

ADRIENNE COOK, GARDENING AND COOKING WRITER AND DANIELLE COOK, MS, NUTRITIONIST AND COOKING INSTRUCTOR

The quintessential fruits of fall will be the main event in this cooking demonstration. Recipes will include ways to use these fruits in both savory and sweet dishes. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

Date: Thursday, September 11
Time: 12 p.m. to 1:30 p.m.
Location: Conservatory Garden Court
FREE: No pre-registration required

Date: Tuesday, September 23
Time: 12 p.m. to 1:30 p.m.
Location: Conservatory Garden Court
FREE: No pre-registration required



LECTURE

WILD FOOD: “FIND DINING” OFF THE EATEN PATH

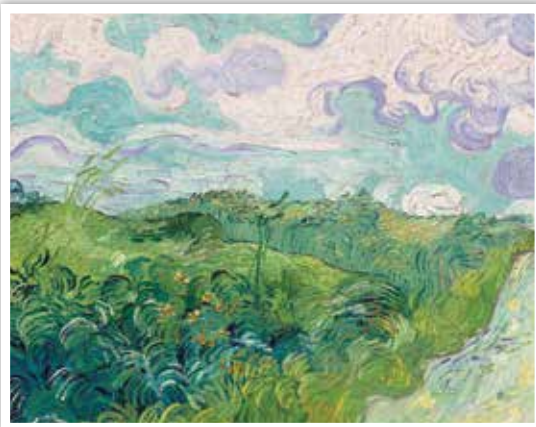
ALAN MUSKAT, AUTHOR OF WILD MUSHROOMS: A TASTE OF ENCHANTMENT, FOUNDER OF NO TASTE LIKE HOME AND THE AFIKOMEN PROJECT

Ready to go wild? Join the country’s leading *philosoforager* as he uncovers the Garden of Eden all around us. Wild food is the ultimate local, natural food. Ideal for people and the planet, it is more healthful, sustainable, and flavorful than its garden variety descendants. This is one place where you get what you *don’t* pay for. Simply go

“out to eat” and take your pick! Discover how easy it is to “take in the landscape.” We’ll meet a dozen denizens of your *yarden* and learn seven reasons to make friends in low places. It’s time to eat the neighbors!

Date: Thursday, September 11
Time: 6:30 p.m. to 8 p.m.
Location: Conservatory Classroom
FREE: Pre-registration required: Visit www.usbg.gov





Vincent van Gogh, Dutch, 1853-1890, Green Wheat Fields, Auvers, 1890

TOUR

WALKING WITH WHEAT: A JOURNEY THROUGH HISTORY, BOTANY AND CULTURE

STAFF AT THE U.S. CAPITOL VISITOR CENTER, NATIONAL GALLERY OF ART AND U.S. BOTANIC GARDEN

Come explore the wonderful world of wheat during this joint program between the U.S. Capitol Visitor Center, National Gallery of Art and U.S. Botanic Garden. This walking tour program begins at the U.S. Capitol Visitor Center, where staff will lead a discussion about plant

scientist and wheat pioneer Dr. Norman Borlaug. A statue of Dr. Borlaug, representing the state of Iowa, was unveiled on March 25, 2014, as part of the National Statuary Hall Collection. The tour continues at the U.S. Botanic Garden's *Amber Waves of Grain* exhibit with a close-up look at the variety and science of wheat. The tour concludes at the National Gallery of Art with an exploration of wheat's impact on visual culture, including the National Gallery of Art's newly acquired "Green Wheat Fields, Auvers" by Vincent van Gogh. Bring your walking shoes and get ready to learn all about wheat's importance and influence in our lives! **Please note:** This is a walking tour, with portions being held outdoors. We suggest wearing comfortable shoes and bringing sunscreen and weather appropriate protective clothing. Please arrive at the U.S. Capitol Visitor Center approximately 20 minutes prior to program start time to accommodate security screening measures. Program offered on Saturday, September 27 is a repeat of the program offered on Friday, September 12.

Date: Friday, September 12

Time: 11:30 a.m. to 1:30 p.m.

Location: Tour meets in the U.S. Capitol Visitor Center.

Please see online listing for exact meeting location.

FREE: Pre-registration required: Visit www.usbg.gov

Date: Saturday, September 27

Time: 10:30 a.m. to 12:30 p.m.

Location: Tour meets in the U.S. Capitol Visitor Center.

Please see online listing for exact meeting location.

FREE: Pre-registration required: Visit www.usbg.gov



BOOK TALK

GROW MORE WITH LESS

**VINNIE SIMEONE, HORTICULTURIST, LECTURER,
GARDEN WRITER**

With detailed strategies for both short-term and long-term gardening techniques, this lecture will provide details on how to create a sustainable home landscape with less time and money. From composting and mulching to planting natives, Vincent Simeone will cover all the eco-friendly essentials to make your garden healthier and more productive. *Grow More With Less* enables gardeners to tackle important issues in everyday life such as managing invasive species, creating a low maintenance lawn (or lawn replacement), water conservation and encouraging wildlife habitat to help your garden thrive.

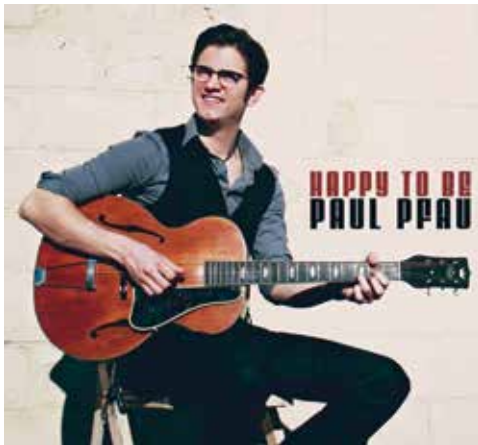


Date: Friday, September 12

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



MUSIC

LOCAL ARTIST CONCERT SERIES

PAUL PFAU

Evenings at the Conservatory are a delight. Come hear local musician Paul Pfau perform and experience the wonder of the garden!

Paul Pfau (rhymes with “wow”) is an award-winning singer-songwriter from the rural hills of western Maryland. His sound is often likened to a fusion between John Mayer and Michael Buble because of his crooning voice and tasteful guitar playing. In 2011 Paul was nominated Best New Artist by the Washington Area Music Association,

opened for The Lumineers, and jammed with the Beach Boys. In 2012 he began recording his debut full-length album, Happy To Be. In 2013 Happy To Be won a WAMMIE for Debut Album of the Year. Currently, Paul is touring the country performing at some of the nation’s most prestigious clubs, colleges, and music festivals.

Date: Friday, September 12

Time: 6 p.m. to 8 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required

WORKSHOP

URBAN AGRICULTURE: SOWING SEEDS, SOWING MONEY

**CAROLYN DIMITRI, PROFESSOR,
DEPARTMENT OF NUTRITION, FOOD
STUDIES AND PUBLIC HEALTH, NEW YORK
UNIVERSITY**

Urban agriculture has captured the attention of policymakers, urban dwellers, and those involved in the “good food movement.” Yet farming in the city, similar to rural farming, is a risky venture that may not be profitable.

As a result, many urban farms are formed as nonprofits rather than traditional, commercial farms, which raises the question of what a farm really is. This question has challenged the two government agencies (Census Bureau and Dept. of Agriculture) that

have collected data on farm numbers since the 1800s. Dr. Dimitri will discuss the benefits of urban farming, as well as the challenges facing urban farmers who seek to add to the food that makes up part of the local food system. The analysis is based on findings from a recent survey of urban farms across the US. **Please note:** Program offered on Sunday, September 14 is a repeat of the program offered on Saturday, September 13.

Carolyn Dimitri is an applied economist with expertise in food systems and food policy. She is currently on the faculty of the Department of Nutrition, Food Studies and Public Health of New York University. Dr. Dimitri is widely recognized as a leading expert on the procurement and marketing of organic food, and has published extensively on the distribution, processing, retailing, and consumption of organic food. More recent work includes urban food system issues, such as food access and urban farming systems. Prior to joining the NYU faculty in 2010, Dr. Dimitri worked as a research economist at the Economic Research Service of the US Department of Agriculture for more than a decade. She earned a PhD in Agricultural and Natural Resource Economics from the University of Maryland, College Park, and a BA in Economics from the University at Buffalo.

Date: Saturday, September 13

Time: 10:30 a.m. to 12:30 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

Date: Sunday, September 14

Time: 2 p.m. to 4 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



Brooklyn Grange



NATIONAL CENTER FOR
APPROPRIATE TECHNOLOGY

WORKSHOP

MAKE YOUR OWN LIVING ORNAMENT

MONIKA SAXTON, USBG GARDENER

Have you ever wanted to create your own living ornaments, like those on display during the holidays at the U.S. Botanic Garden? Spend an hour with Monika Saxton as she takes you through the steps of creating your own living ornaments. Each participant will make two ornaments for display in their home, which will be at their peak just in time for the holiday season.

Date: Saturday, September 13

Time: 2 p.m. to 3 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

Date: Thursday, September 25

Time: 6:30 p.m. to 7:30 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



LECTURE

ATTRACTING BENEFICIAL BUGS TO YOUR GARDEN

**JESSICA WALLISER, HORTICULTURIST,
AUTHOR AND DEVOTED BUG LOVER**

Understanding the cycle of predator and prey is an integral part of growing organically. Using information assembled for her newest book, *Attracting Beneficial Bugs to Your Garden: A Natural Approach to Pest Control*, Jessica shines some light on the methods needed to attract beneficial insects to the garden – and keep them there. She presents ground-breaking research regarding the intricate connection between plants and insects, and explains the need for maintaining the garden's natural balance. Jessica describes over a dozen species of beneficial insects found across North America and accompanies the lecture with beautiful images of the predators themselves and their favorite host plants. You'll never look at bugs the same way again!



Jessica Walliser

Date: Monday, September 15

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



TOUR

MID-DAY TOUR IN THE GARDEN OF GOOD AND EVIL: MEDICINAL AND POISON PLANTS AT THE USBG

**BETH BURROUS, BIOCHEMIST
AND USBG VOLUNTEER**

Many important medicines are derived from plants, but too much of a good thing can be dangerous. During a walking tour of the Conservatory, Beth Burrous will feature poisonous

and medicinal plants growing at the USBG. She will talk about famous, interesting and sometimes fatal cases of poisoning by plants. You will also see and learn about plants used to make life-saving medicines.

Date: Tuesday, September 16

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

TOUR

THE ART AND HISTORY SOFT THE USBG

SUSAN KLUSMAN, USBG VOLUNTEER

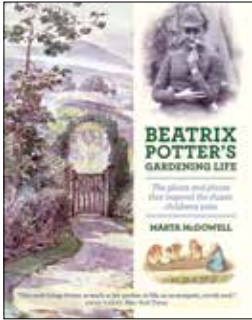
Ever wonder why the U.S. Botanic Garden Conservatory is located on its present site? What the architectural style of the building is? How Bartholdi's Fountain became part of the USBG? Where many of the first plants in the Conservatory originated? This walking tour will explore how historical currents, architecture, sculpture, and landscape architecture came together to create this grand building. **Please note:** The program is canceled if it rains.

Date: Wednesday, September 17

Time: 2 p.m. to 3 p.m.

Location: Tour meets in the front lobby of the Conservatory

FREE: No pre-registration required



LECTURE

BEATRIX POTTER'S GARDENS

MARTA MCDOWELL, AUTHOR, BEATRIX POTTER'S GARDENING LIFE, AND LANDSCAPE HISTORY AND HORTICULTURE INSTRUCTOR, NEW YORK BOTANICAL GARDEN

When we think of Beatrix Potter, we imagine blue-jacketed bunnies and other fuzzy fauna. But Beatrix Potter, an intriguing character in her own right, was

also quite interested in plants and gardens. This lecture explores Potter's botanical art, the flora and horticulture that appears in her "little books" and Potter's own garden in England's Lake District.

Date: Friday, September 19

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required



Marco Ricca

SPECIAL EVENT

HARVEST PARTY

***SPONSORED BY THE
NATIONAL FUND FOR THE
U.S. BOTANIC GARDEN***

Celebrate the end of the local growing season at the Harvest Party! The event features Washington-area guest chefs presenting cooking demonstrations and a delicious buffet full of garden fresh ideas, in addition to cocktails and microbrews. Please join us for this unique and exciting event at the U.S. Botanic Garden.



Date: Friday, September 19

Time: 6 p.m. to 8:30 p.m.

Location: National Garden (Rain Location: Conservatory)

Friends: \$100

Non-members: \$125

Pre-registration required: Visit www.nfusb.org/events. No registrations will be accepted at the door. For additional information contact the National Fund Administrator at (202) 225-1281.





CELEBRATION

JUNIOR BOTANIST FESTIVAL

USBG STAFF & VOLUNTEERS

Come help us celebrate the wonders of being a Junior Botanist! Adventure abounds at the U.S. Botanic Garden as you discover all the talents needed to become a Junior Botanist. Between hands-on activities and engaging discussions with USBG staff and volunteers, be sure to ponder plants with wheat experts. Then stick around and try our Junior Botanist program in the Conservatory! **Please note:** This program will occur rain or shine.

Date: Saturday, September 20
Time: 10 a.m. to 2 p.m.
Location: Conservatory Terrace (Rain Location: Garden Court)
FREE: No pre-registration required



LECTURE

TRUE TALES FROM THE GINSENG TRADE: A PLANT'S JOURNEY FROM APPALACHIA TO CHINA

DAVID A. TAYLOR, AUTHOR, GINSENG, THE DIVINE ROOT

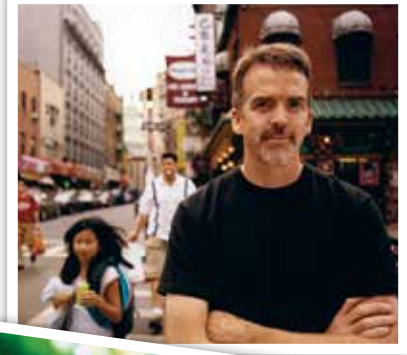
Popular interest in American ginseng (*Panax quinquefolius*) has grown with stories of plant poachers and traders featured on more than one reality TV series this year. The series feature a few mountaineers stealing ginseng from their neighbors, and others poaching on government forest land. Some of the dynamics they get right; they also include some misconceptions about plant protection and the prices that ginseng can fetch. This talk will share true tales and set the record straight.

Date: Friday, September 26

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



MUSIC

LOCAL ARTIST CONCERT SERIES

TED GARBER

Evenings at the Conservatory are a delight. Come hear local musician Ted Garber perform and experience the wonder of the garden!

Ushering in a new golden age of live entertainment is Ted Garber, a genre-bending multi-instrumentalist whose "BluesAmericanaRock" combines classic showmanship with a captivating singer-songwriter sensibility. His smokey, bluesy vocals, howling harmonica riffs and screaming guitar licks are enticing audiences worldwide, taking

them on a diverse musical journey from the Big Apple to the Big Easy, hovering in the Mississippi Delta before heading South of the Border.

Date: Friday, September 26

Time: 6 p.m. to 8 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required

WORKSHOP

GARDEN PHOTOGRAPHY

JOSH TAYLOR, JR., PHOTOGRAPHER

Capture stunning fall images of flowers and landscapes in the gardens surrounding the U.S. Botanic Garden. While photographing in the National Garden and Bartholdi Park, participants will learn and apply garden landscape and close-up techniques that will lift ordinary images to the extraordinary. This two day workshop is open to all levels of photography. The workshop includes online pre-workshop instruction, classroom instruction, an illustrated handout, and garden shooting sessions with the instructor. Instructions will cover making the best use of your camera and photo equipment, visual design, managing light with diffusers and reflectors, and close-up images. Also, the instructor will use participants' images to demonstrate Photoshop and Photoshop Elements post-processing image enhancement techniques. The workshop will conclude with sharing and a critique of participants' images. You will leave the workshop a better photographer. **Please note:** Bring ALL photo equipment to all sessions, including a digital memory card, extra batteries, and camera manual. A tripod is optional, but highly recommended. While point-n-shoot cameras are welcome, please be reminded that these cameras have limited options.

Date: Saturday and Sunday, September 27 and 28

Time: 8 a.m. to 3:30 p.m.

Location: Conservatory Classroom

Friends: \$150

Non-members: \$175

Pre-registration required: Visit www.usbg.gov



CHILDREN'S PROGRAM

SPROUTS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Bring your preschooler (ages 3-5) to the U.S. Botanic Garden for plant-related fun. Each Wednesday session will have varied activities that may include a story, art activity or walk in the garden. **Please note:** Children must be accompanied by an adult. Participating children must be at least 3 years of age. Program in October is a repeat of September.

Dates: Wednesdays, October 1, 8, 15, 22

Time: 10:30 a.m. to 11:30 a.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov*

*Please note: Registration opens on Wednesday, September 3 at 10 a.m.



TOUR

LUNCHTIME TOUR OF THE CONSERVATORY

USBG VOLUNTEERS

What do manila folders, Chanel No. 5, vanilla and fossil fuels have in common? They all come from plants on permanent display in the USBG Conservatory. Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

Dates: Mondays, October 6, 13, 20, 27

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

Dates: Wednesdays, October 1, 8, 15, 22, 29

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



TOUR

THE ART AND HISTORY OF THE USBG

SUSAN KLUSMAN, USBG VOLUNTEER

Ever wonder why the U.S. Botanic Garden Conservatory is located on its present site? What the architectural style of the building is? How Bartholdi's Fountain became part of the USBG? Where many of the first plants in the Conservatory originated? This walking tour will explore how historical currents, architecture, sculpture, and landscape architecture came together to create this grand building. **Please note:** The program is canceled if it rains.

Date: Wednesday, October 1

Time: 2 p.m. to 3 p.m.

Location: Tour meets in the front lobby of the Conservatory

FREE: No pre-registration required



PARENT & CHILD PROGRAM

SNUGGLERS

USBG VOLUNTEER

Do you have a tiny treasure in a snuggly? Looking for ways to get out of the house, and learn? Join us each Thursday for a 45-minute guided tour of the Conservatory. Each week will be a different exploration. This program is designed for parents and care providers who have a tiny one in a snuggly. **Please note:** Due to our narrow paths and the nature of this program, we cannot support strollers or older siblings.



Date (*Choose any or all of the following*): Thursday, October 2, 9, 16, 23, 30

Time: 10:30 a.m. to 11:30 a.m.

Location: Conservatory Garden Court

FREE: Pre-registration required: Visit www.usbg.gov



WORKSHOP

MAKE YOUR OWN LIVING ORNAMENT

MONIKA SAXTON, USBG GARDENER

Have you ever wanted to create your own living ornaments, like those on display during the holidays at the U.S. Botanic Garden? Spend an hour with Monika Saxton as she takes you through the steps of creating your own living ornaments. Each participant will make two ornaments for display in their home, which will be at their peak just in time for the holiday season.

Date: Friday, October 3

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



The moat and gazebo at Sissinghurst



LECTURE

PORTRAIT OF A GARDEN

ALEXIS DATTA, RETIRED HEAD GARDENER AT SISSINGHURST CASTLE GARDEN

Alexis Datta, retired Head Gardener at Sissinghurst Castle Garden, brings one of the most famous and visited gardens in England to you. Join her during a rare visit to the U.S., explore the history and philosophy of Sissinghurst, and learn about its creators, The Observer gardening columnist Vita Sackville-West and her husband, author and diplomat Harold Nicolson. Visited by Queen Elizabeth I, discover what the many outdoor rooms of Castle Garden look like today and gain insight on the unique way the Castle Garden's old fashioned roses are pruned and trained.



The white garden in summer at Sissinghurst

Date: Friday, October 3

Time: 6:30 p.m. to 8 p.m.

Location: Conservatory

Classroom

Friends: \$30

Non-Members: \$35

Pre-registration required: Visit www.usbg.gov

YOUTH WORKSHOP

SCIENCE FAIR PREP: HOW PLANTS WORK

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Are you a 5th-8th grader curious about how plants work and/or in need of a science fair project? During this workshop, we will investigate plants, explore hands on learning and probe different models to assist you in identifying questions, hypotheses, supply lists and the steps to conduct a plant science project. Topics will include:

- Carnivorous Plants and Plant Adaptations
- The Dissection of the Photosynthesis Process
- Plant DNA

Please note: This program is limited to 15 students with one adult chaperone per student.

Date: Sunday, October 5

Time: 2 p.m. to 4 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



CHILDREN'S PROGRAM

SEEDLINGS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Come learn just how amazing plants really are during our Seedlings class (ages 6-10). Each week will be a mix of hands-on investigations, planting projects and science-based activities. **Please note:** Students must be at least 6 years of age and accompanied by an adult. Seedlings is designed for a more advanced level of plant science education. For the benefit of all participants, we request that only children ages 6 and up attend and share in class activities. Program in October is a repeat of September.

Dates: Tuesdays, October 7, 14, 21, 28

Time: 10:30 a.m. to 12 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov*

*Please note: Registration opens on Wednesday, September 3 at 10 a.m.

COOKING DEMONSTRATION

FALL MARKET FEASTS

**ADRIENNE COOK, GARDENING AND COOKING WRITER
AND DANIELLE COOK, MS, NUTRITIONIST AND
COOKING INSTRUCTOR**

The last of the beans, tomatoes, peppers and summer squash, the maturing of winter squashes, broccoli and late peas, the fall farmer's market is a wonder of abundance. This demo will incorporate seasonal vegetables and fruits. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

Date: Thursday, October 9

Time: 12 p.m. to 1:30 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required



LECTURE

THIN PLACES: GARDENS THAT MOVE YOU

**RICHARD HARTLAGE, PARTNER AND CEO OF LAND
MORPHOLOGY**

Referring to a Thin Place is a term that is most surely Irish or Scottish and no derivation can be traced it is so old. Thin Places can be beautiful or austere and opulent or profane but what they do have in common is a place that transports us from a view of the present or recollections of the past to a profound sense of the magnitude of being in the present. Can gardens be thin places? With thoughtful collaboration and discipline they can. Not every project has the intention, but those that do can be profound experiences. Richard will

talk about two significant projects that have changed his perception on making exceptional gardens with strong emotional impressions and what ingredients imbue a place with meaning. The inherent characters of the site must be teased out and magnified and how details reinforce the organizing themes are critical to a unified and powerful creation of an exceptional garden. An Apache proverb says: 'Wisdom sits in place'. The idea of revealing and speaking that wisdom in the form of a garden is a profound task but rewarded with inspiring results.

Date: Friday, October 10

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

CHILDREN'S PROGRAM

NIGHT ADVENTURE AT THE USBG

*LEE COYKENDALL, USBG
CHILDREN'S EDUCATION
SPECIALIST*

Ever wonder what it's like to be at the U.S. Botanic Garden late at night after the public and gardeners have gone home? A night adventure awaits you as you venture out on a flashlight tour of the Jungle, explore night-blooming flowers and night pollinators,

experience the cool of the night desert and participate in several hands-on plant science experiments. **Please note:** Participants must be between the ages of 8 and 12 and be accompanied by an adult. No adults may enroll without registered children. Parents must remain on site during the program.



Date: Friday, October 10

Time: 7:30 p.m. to 9:30 p.m.

Location: Conservatory

FREE: Pre-registration required: Visit www.usbg.gov

Date: Saturday, October 11

Time: 7:30 p.m. to 9:30 p.m.

Location: Conservatory

FREE: Pre-registration required: Visit www.usbg.gov



Vincent van Gogh, Dutch, 1853-1890, Green Wheat Fields, Auvers, 1890

TOUR

WALKING WITH WHEAT: A JOURNEY THROUGH HISTORY, BOTANY AND CULTURE

STAFF AT THE U.S. CAPITOL VISITOR CENTER, NATIONAL GALLERY OF ART AND U.S. BOTANIC GARDEN

Come explore the wonderful world of wheat during this joint program between the U.S. Capitol Visitor Center, National Gallery of Art and U.S. Botanic Garden. This walking tour program

begins at the U.S. Capitol Visitor Center, where staff will lead a discussion about plant scientist and wheat pioneer Dr. Norman Borlaug. A statue of Dr. Borlaug, representing the state of Iowa, was unveiled on March 25, 2014, as part of the National Statuary Hall Collection. The tour continues at the U.S. Botanic Garden's *Amber Waves of Grain* exhibit with a close-up look at the variety and science of wheat. The tour concludes at the National Gallery of Art with an exploration of wheat's impact on visual culture, including the National Gallery of Art's newly acquired "Green Wheat Fields, Auvers" by Vincent van Gogh. Bring your walking shoes and get ready to learn all about wheat's importance and influence in our lives! **Please note:** This is a walking tour, with portions being held outdoors. We suggest wearing comfortable shoes and bringing sunscreen and weather appropriate protective clothing. Please arrive at the U.S. Capitol Visitor Center approximately 20 minutes prior to program start time to accommodate security screening measures.

Date: Saturday, October 11

Time: 3 p.m. to 5 p.m.

Location: Tour meets in the U.S. Capitol Visitor Center.

Please see online listing for exact meeting location.

FREE: Pre-registration required: Visit www.usbg.gov



LECTURE

ALIENWEEDS: TAPPING THE ABUNDANCE OF INVASIVE PLANTS

PATTERSON CLARK, ARTIST AND WRITER

Habitat restoration often begins with the removal of exotic invasive vegetation, which can yield an abundance of material: paper and fabric fibers, pigments, lumber, chemicals, fuel and food. Patterson Clark will document the processes he uses to turn local invasive weeds into inks, printing blocks and sheets of paper, which reunite at the letterpress to yield prints. Raw and refined materials will be available for a hands-on display. **Please note:** This program is offered in conjunction with the Botanical Arts Society of the National Capital Region. Space will be limited to 20 registrants.



Hedera hibernica

Date: Sunday, October 12

Time: 1:30 p.m. to 2:30 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

LECTURE

THE HISTORY OF SPICES

TODD BRETHAUER, USBG SCIENCE EDUCATION VOLUNTEER

The botany, geography, ecology and economics of spice production combined with human lust for spice consumption have conspired over the centuries to make fortunes for a few and launched the great voyages of discovery that changed the lives of many. Learn how pepper, allspice, cinnamon, cloves and nutmeg, once affordable only by the very rich, have become part of our daily lives. Todd Brethauer will cover the production, processing and history of spices with plants from the USBG collection.

Date: Monday, October 13

Time: 10:30 a.m. to 12 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



Piper nigrum

Todd Brethauer



Evans Dream

LECTURE**THE BOTANY, HISTORY AND FUTURE OF CHRYSANTHEMUMS**

TODD BRETHAUER, USBG SCIENCE EDUCATION VOLUNTEER

Each fall Chrysanthemums bring diverse colors and floral forms to our gardens and homes. Brought under cultivation in Asia thousands of years ago, they have important cultural, medicinal and culinary uses in Chinese and Japanese cultures in addition to their popular horticultural uses. In the 1800s, they became a passion for gardeners and breeders in

Europe and the young United States. Come and learn which First Lady attended the national chrysanthemum show in Indianapolis so she could present the grand prize to the winning grower. Learn how modern analytical and breeding methods are being applied around the world to improve the disease- and insect-resistance and to improve production methods of these “Starry Eyed Daughters of the Fall.”

Date: Monday, October 13

Time: 2 p.m. to 3:30 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov

TOUR**MID-DAY TOUR IN THE GARDEN OF GOOD AND EVIL: MEDICINAL AND POISON PLANTS AT THE USBG**

BETH BURROUS, BIOCHEMIST AND USBG VOLUNTEER

Many important medicines are derived from plants, but too much of a good thing can be dangerous. During a walking tour of the Conservatory, Beth Burrous will feature poisonous and medicinal plants growing at the USBG. She will talk about famous, interesting and sometimes fatal cases of poisoning by plants. You will also see and learn about plants used to make life-saving medicines.

Date: Tuesday, October 14

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



LECTURE

WHAT SCIENCE SAYS ABOUT GMO FOODS

BETH BURROUS, BIOCHEMIST AND USBG VOLUNTEER

GMO plants frequently make headlines. Some foods are labeled “no GMOs” or “non-GMO.” In this class, Beth will explain the science behind the headlines and food labels. She will present both sides of the issues surrounding this controversial subject, including food safety, environmental impact and government regulation.

Date: Friday, October 17

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required

WORKSHOP

MEDIEVAL ILLUMINATION

JEAN BRINTON-JAECKS, ARTIST

This workshop is a historical overview of the egg tempera and 24k gold leaf technique utilized by manuscript artists from the 4th to the 14th century. In a studio setting, students will work from the Botanic Garden’s rich collection of flower and plant specimens, as well as insects, shells, feathers and other natural objects provided by the instructor to design and create their own illumination.

The course will examine traditional egg tempera techniques. Students will learn the grinding of natural mineral pigments, the making and application of egg tempera paint in addition to raised gold leaf as a manuscript embellishment on calfskin vellum. The study of herbal manuscripts, bestiaries and illuminated manuscripts portraying flowers, insects, birds and shells from the Late Antique to the Renaissance will enhance the learning experience. **Please note:** Materials list can be found with the online listing. Please bring a lunch.

Date: Saturday and Sunday, October 18-19 and 25-26

Time: 9 a.m. to 4:30 p.m.

Location: Conservatory Classroom

Friends: \$425*

Non-Members: \$475*

Pre-registration required: Visit www.usbg.gov

**cost includes a \$100 materials fee that covers: prepared calfskin vellum, dry pigments, mortar and pestles, egg yolk binder, 24k gold leaf, size for gilding, burnishers for gilding, glass palettes, straws, toothpicks, cotton balls, mylar and other paint and gilding materials. Other basic materials to be provided by students – a materials list for those items can be found with the online listing.*





COOKING DEMONSTRATION

WINTER GREENS

ADRIENNE COOK, GARDENING AND COOKING WRITER AND DANIELLE COOK, MS, NUTRITIONIST AND COOKING INSTRUCTOR

Delicious comfort foods, hardy greens also are one of the main ways we get green nutrients in the dead of winter. Join us for a demo that will feature kale, collards, mustard greens, chard, and turnip greens in soups, sides, salads and even main courses. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

Date: Thursday, October 23

Time: 12 p.m. to 1:30 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required

LECTURE

THE WEATHER IN THE SUPERMARKET

SUSAN DWORKIN, AWARD-WINNING JOURNALIST AND BEST-SELLING AUTHOR OF THE VIKING IN THE WHEAT FIELD, THE NAZI OFFICER'S WIFE, AND THE COMMONS

This lecture will cover some of the important changes that will affect staple foods as a result of climate change, including the potential extinction of some varieties (e.g. bananas), the genetic modification of some foods to help them resist drought, salty water and fierce new storms (e.g. rice), as well as the role of seed banks in preserving “original” varieties in case climate emergencies make it necessary to restore a lost crop.



Date: Friday, October 24

Time: 12 p.m. to 1 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov



MUSIC

LOCAL ARTIST CONCERT SERIES

PATTY REESE

Evenings at the Conservatory are a delight. Come hear local musician Patty Reese perform and experience the wonder of the garden!

After a standing ovation following her performance at the packed Strathmore Music Center during the recent Woodstock tribute, Patty Reese's attitude, soulful expression and powerhouse pipes proved a match for the likes of Janis Joplin,

Aretha Franklin, Bob Dylan and Bruce Springsteen. Reese is winner of eleven WAMMIES including Album of the Year, Artist of the Year and Roots Rock Vocalist! With the voice and musicianship on Patty Reese's latest release Strong Medicine, it couldn't be clearer that the medicine is working.

Date: Friday, October 24

Time: 6 p.m. to 8 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required

TOUR

THE KINGDOM OF RARITIES: NATURE'S BEST KEPT SECRET

ERIC DINERSTEIN, DIRECTOR, BIODIVERSITY AND WILDLIFE SOLUTIONS, RESOLVE

One of the least known facts in biology, even among some biologists, is that most species on Earth are rare. By this we mean having a narrow range, a limited abundance, or both. But which species have always been rare and why? From jaguars to rainforest plants, from Kirtland's warblers to Andean cock-of-the-rock, why are some species so scarce and others so common? This tour will explain a basic phenomenon of nature for a lay audience using examples of some of the most spectacular plants and animals on Earth in some of the most exotic locations.

Date: Thursday, October 30

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: Pre-registration

required: Visit www.usbg.gov



Eric Dinerstein, middle, with Welwitschia mirabilis.

Music

LOCAL ARTIST CONCERT SERIES

JUSTIN TRAWICK

Evenings at the Conservatory are a delight. Come hear local musician Justin Trawick perform and experience the wonder of the garden, just in time for Halloween!

Somewhere in-between John Prine and Jason Mraz lies Justin Trawick, a Washington, D.C. based singer-songwriter working hard to etch his name in musical history. Describing his music as “urban folk rock” and “singer/songwriter”, Justin has a sound ranging from folk to bluegrass, and even acoustic funk-infused hip-hop. His lyrics are gritty yet sweet, often referencing lessons learned or hopes for a better future. Winner of the 2006 Emerging Artist Contest at the Takoma Park Folk Festival, he has played repeated performances at D.C. area venues such as the 9:30 Club, IOTA, Jammin Java, the Kennedy Center’s Millennium Stage, and more. Justin has toured the east coast, sharing the stage with nationally renowned artists and bands like Brett Dennen, Pat Green, Bob Schneider, Blues Traveler, Sara Bareilles, Pat McGee, Ingram Hill, Edwin McCain, Corey Harris, Tyrone Wells, The Hackensaw Boys, The Gourds, Cowboy Mouth, Emmet Swimming, and even KC and the Sunshine Band!

Dates: Friday, October 31

Time: 6 p.m. to 8 p.m.

Location: Conservatory Garden Court

FREE: No pre-registration required



Tour

LUNCHTIME TOUR OF THE CONSERVATORY

USBG VOLUNTEERS

What do manila folders, Chanel No. 5, vanilla and fossil fuels have in common? They all come from plants on permanent display in the USBG Conservatory. Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

Dates: Mondays, November 3, 10

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

Date: Wednesday, November 5

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



TOUR

MID-DAY TOUR IN THE GARDEN OF GOOD AND EVIL: MEDICINAL AND POISON PLANTS AT THE USBG

BETH BURROUS, BIOCHEMIST AND USBG VOLUNTEER

Many important medicines are derived from plants, but too much of a good thing can be dangerous. During a walking tour of the Conservatory, Beth Burrous will feature poisonous and medicinal plants growing at the USBG. She will talk about famous, interesting and sometimes fatal cases of poisoning by plants. You will also see and learn about plants used to make life-saving medicines.



Date: Tuesday, November 4

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



CHILDREN'S PROGRAM

SPROUTS REUNION!

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Where have all our Sprouts gone? Come back to the Garden, see old friends and venture through the Conservatory exploring many different children's activities. While the program is designed for parents and children who participated in the Sprouts program, all children are welcome to attend!

Date: Tuesday, November 11

Time: 10 a.m. to 12 p.m.

Location: Conservatory

FREE: No pre-registration required



Eric Dinerstein, middle, with Welwitschia mirabilis.

Tour

THE KINGDOM OF RARITIES: NATURE'S BEST KEPT SECRET

ERIC DINERSTEIN, DIRECTOR, BIODIVERSITY AND WILDLIFE SOLUTIONS, RESOLVE

One of the least known facts in biology, even among some biologists, is that most species on Earth are rare. By this we mean having a narrow range, a limited abundance, or both. But which species have always been rare and why? From jaguars to rainforest plants, from Kirtland's warblers to Andean cock-of-the-rock, why are some species so scarce and others so common? This tour will explain a basic phenomenon of nature for a lay audience using examples of some of the most spectacular plants and animals on Earth in some of the most exotic locations.

Date: Thursday, November 13

Time: 12 p.m. to 1 p.m.

Location: Tour meets in the Conservatory Garden Court

FREE: Pre-registration required: Visit www.usbg.gov

TOUR

FALL TREE TOUR OF THE CAPITOL GROUNDS

MELANIE CHOUKAS-BRADLEY,
AUTHOR OF CITY OF TREES

Late autumn is a magnificent time to appreciate the newly emerging architecture and colorful remaining fall foliage of the historic trees that grace the U.S. Capitol Grounds. Meet in front of the Conservatory to stroll around the Capitol, admiring and learning about its grand old tree specimens from around the country and the world, including many official state trees and memorial plantings. Melanie Choukas-Bradley will focus on autumn fruits, remaining leaves, newly bare twigs and bark, teaching how to identify diverse species of oak, maple, beech, buckeye, magnolia, ginkgo and many other trees. Melanie will share history of the Capitol Grounds, which were designed by the pre-eminent 19th century landscape architect Frederick Law Olmsted (who also designed Central Park), and arboreal stories of the capital city, going back to the time of tree-loving founders George Washington and Thomas Jefferson. Binoculars optional, but recommended.

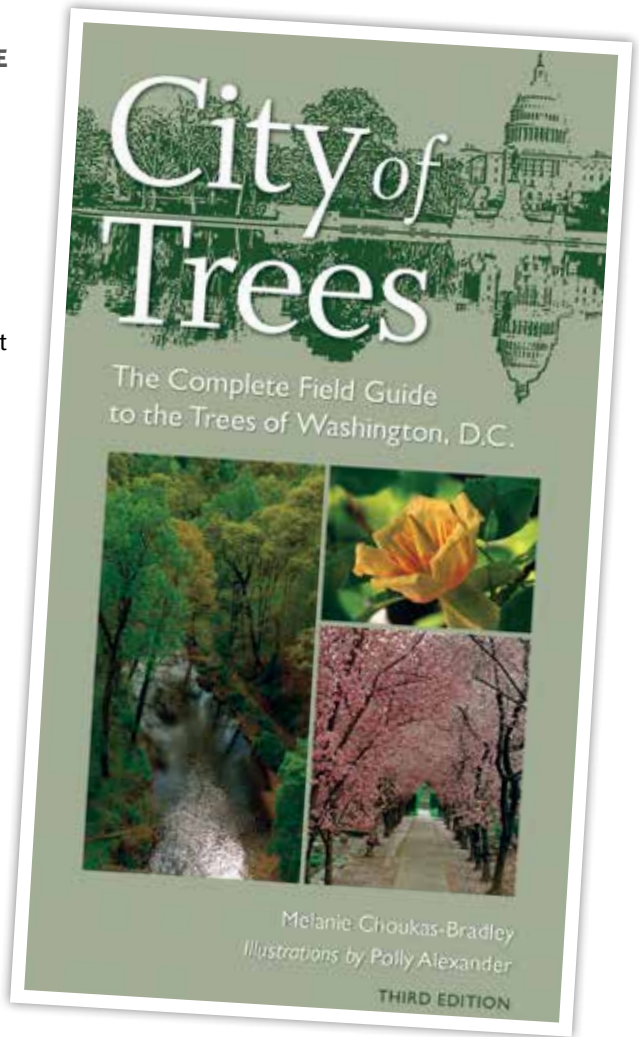
Please note: This tour is held outdoors. We suggest bringing sunscreen, protective clothing, snacks and water. The tour is canceled if it rains.

Date: Saturday, November 15

Time: 10 a.m. to 1 p.m.

Location: Tour meets on the Terrace by the entrance to the Conservatory

FREE: Pre-registration required: Visit www.usbg.gov



Upcoming Events in Early January

Mark your calendars for these programs in early January!

CHILDREN'S PROGRAM

SEEDLINGS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Come learn just how amazing plants really are during our Seedlings class (ages 6-10). Each week will be a mix of hands-on investigations, planting projects and science-based activities. **Please note:** Students must be at least 6 years of age and accompanied by an adult. Seedlings is designed for a more advanced level of plant science education. For the benefit of all participants, we request that only children ages 6 and up attend and share in class activities.

Dates: Tuesdays, January 6, 13, 20, 27

Time: 10:30 a.m. to 12 p.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov*

*Please note: Registration opens on Wednesday, December 3 at 10 a.m.



CHILDREN'S PROGRAM

SPROUTS

LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Bring your preschooler (ages 3-5) to the U.S. Botanic Garden for plant-related fun. Each Wednesday session will have varied activities that may include a story, art activity or walk in the garden. **Please note:** Children must be accompanied by an adult. Participating children must be at least 3 years of age.

Dates: Wednesdays, January 7, 14, 21, 28

Time: 10:30 a.m. to 11:30 a.m.

Location: Conservatory Classroom

FREE: Pre-registration required: Visit www.usbg.gov*

*Please note: Registration opens on Wednesday, December 3 at 10 a.m.



USBG Programs on Your Schedule

GARDEN TOURS ON YOUR MOBILE PHONE

Now you can have a private tour of the gardens and plants at the U.S. Botanic Garden Conservatory and National Garden. You are invited to use this tour when you visit or listen from home.

How the tour works:

- Call the tour number: 202-730-9303.
- Enter the stop number from the Conservatory or National Garden to hear the message.
- Smartphone users: After dialing the tour number, you will be sent a text message with instructions for streaming audio access.

CONSERVATORY

- 1 – USBG Brief History
- 10 – Garden Court
- 20 – West Gallery
- 30 – Rare & Endangered Plants
- 40 – Plant Exploration
- 50 – Orchids
- 60 – Medicinal Plants
- 70 – World Deserts
- 80 – Hawaii
- 90 – Garden Primeval
- 100 – Plant Adaptation
- 120 – Children’s Garden
- 130 – Jungle
- 140 – Southern Exposure

NATIONAL GARDEN

- 700 – National Garden Overview
- 705 – Regional Garden
- 710 – Butterfly Garden
- 715 – Rose Garden
- 720 – Piedmont vs. Coastal Plain
- 725 – Stream
- 730 – Cycle of Fire
- 735 – Sustainability
- 740 – Amphitheater
- 745 – First Ladies Water Garden
- 750 – Lawn Terrace

You may hang up and redial the tour at anytime. During the tour, you can control the audio by pressing 1 to rewind the recording, 2 to pause/play the recording, or press # to skip the recording.

Normal fees apply to your call.

BECOME A JUNIOR BOTANIST!

Hey kids! The U.S. Botanic Garden is looking for Junior Botanists. Who are these strange green life forms among us? Since they make our lives possible, it is a good idea to get to know them! When you visit the USBG bring along an adult advisor with an official ID (such as a driver's license) and check out a Junior Botanist Adventure Field Kit. The backpack is filled with cool tools to use during your explorations. When you complete each of the Adventure Sheets you will become an Apprentice Junior Botanist. Follow up your visit to the USBG with an at home activity then apply to our botanist and become an official USBG Junior Botanist. Please

note that completion of the Adventure Sheets usually takes an individual several visits. The program is free. **Please note:** Schools may reserve Junior Botanist on Fridays by contacting our Children's Education Specialist at lcoykend@aoc.gov.

Upon successful completion of the Adventure Sheets, Junior Botanists will receive a certificate signed by our botanist, a field journal and explorer's lens.





NATIONAL FUND
United States Botanic Garden

National Fund

WHAT IS THE NATIONAL FUND?

The National Fund for the United States Botanic Garden was initially established as a 501(c)3 in 1989 to fund and build the National Garden. The National Fund now supports the educational activities of the USBG, including the National Garden Internship, an annual program that promotes “green” gardening practices through education and outreach.

Find out more at www.nfusbg.org.

PARTNERS IN EDUCATION: THE USBG AND THE NATIONAL FUND

The U.S. Botanic Garden and the National Fund for the United States Botanic Garden jointly sponsor our public programs. Registration fees for programs are administered by the National Fund for the USBG. These fees allow us to bring you a range of educational programs, in addition to outstanding instructors and lecturers. To ensure that we may adequately plan for your attendance, please register in advance for programs. Programs with inadequate registration may be canceled. Payment cannot be accepted at the door.

Become a Friend of the National Fund

Please join us by becoming a Friend of the National Fund and help us fund the U.S. Botanic Garden’s many on-site environmental and outreach programs. Contributions are tax-deductible. Membership benefits are listed below:

CAPITOL FRIEND (\$1,000 PER YEAR)

- Invitation to the members-only Holiday Party
- Five complimentary guest admissions to the Spring reception
- All membership benefits listed below

NATIONAL FRIEND (\$500 PER YEAR)

- Invitation to the members-only Holiday Party
- Three complimentary guest admissions to the Spring reception
- All membership benefits listed below

FIRST FRIEND (\$250 PER YEAR)

- Invitation to the members-only Holiday Party
- One complimentary guest admission to the Spring reception
- All membership benefits listed below

JUNIOR FRIEND (FOR FIRST FRIENDS UNDER 40; \$150 PER YEAR)

- Invitation to the members-only Holiday Party
- One complimentary guest admission to the Spring reception
- All membership benefits listed below

FRIEND (\$75 PER YEAR)

- Invitation to the members-only Holiday Party
- Discounted registration fees for educational programs sponsored by the USBG
- Discounted tickets to special events sponsored by the National Fund
- Quarterly USBG Calendar of Events

About Registration

- Class sizes are limited. Early registration is recommended.
- To register online for programs, go to the U.S. Botanic Garden website at www.usbg.gov.
- To register by mail, complete the form and send to:
Registrar, U.S. Botanic Garden, 245 First St SW, Washington, DC 20024.
- To register by telephone with a credit card, call 202-225-1116.
- Registration fees must be paid in advance. Payment cannot be accepted at the door.
- The U.S. Botanic Garden reserves the right to substitute instructors or cancel programs when necessary.
- Registration fees will be refunded only in the case of program cancellation by the U.S. Botanic Garden.

USBG PROGRAM REGISTRATION FORM

Please print

Name: Mr. & Mrs./Mr./Ms. _____

Street Address _____

City _____ State _____ Zip _____

Phone (Required) Daytime _____ Evening _____

E-mail Address _____

Please indicate (X)

- I am a current FRIEND.
- I would like to become a FRIEND. \$75
- I would like to become a JUNIOR FRIEND. For First Friends under 40; \$150 per year
- I would like to become a FIRST FRIEND. \$250
- I would like to become a NATIONAL FRIEND. \$500
- I would like to become a CAPITOL FRIEND. \$1,000

Title	# of Participants	Fees
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____
_____	_____	_____

FRIEND membership _____

Make check payable to NFUSBG or charge to

Visa Mastercard Discover

Total Fees _____

Card Number _____ Expiration Date _____

Signature _____

Mail registration form to: Registrar, U.S. Botanic Garden, 245 First St., SW, Washington, DC 20024



UNITED
STATES



BOTANIC
GARDEN

245 First Street, SW
Washington, DC 20024