



UNITED STATES BOTANIC GARDEN

Calendar of Events

JANUARY – FEBRUARY 2016

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 an accredited museum 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, Mediterranean and arid regions, and showcases orchids, medicinal, economic, endangered and Jurassic plants. From late May to mid-October, the Conservatory terrace and the East Gallery feature thematic displays and exhibits.

The **National Garden** is adjacent to the Conservatory. It features the Regional Garden, Rose Garden, First Ladies Water Garden, Butterfly Garden and Amphitheater.

Bartholdi Park will be closed beginning this winter until summer while the gardens and hardscapes around the fountain are renovated. The project will improve accessibility and sustainability and is following the Sustainable SITES Initiative, a system of criteria for sustainable landscape design and construction emphasizing the use of native American plants.

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, Blue and Silver 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. The DC Circulator Bus (National Mall route) stops across the street from the Conservatory on 3rd Street.

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. Groups of 10 to 25 adults may reserve a free 45-minute guided tour of the Conservatory Monday through Friday by calling (202) 226-2055 at least four weeks in advance.

The USBG strives to make its facilities and programs **accessible** to all visitors to ensure an enjoyable Garden visit. Wheelchairs, Visitor Guides in braille and large print formats, sign language interpretation and hearing-aid compatible assistive listening devices for tours are all available upon request.

Visit our website for more info and to register for programs: www.usbg.gov

For More Information

General Information & Accessibility at the USBG: 202-225-8333

Register for Programs: 202-225-1116

Request Tours: 202-226-2055

Plant Hotline: 202-226-4785

Volunteer Opportunities: 202-226-1047

Media Inquiries: 202-226-4145

AT A GLANCE

Programs are listed by starting date.

DATE	TIME	TITLE	PAGE
JANUARY			
4	12:00 p.m.	Lunchtime Tour of the Conservatory	9
5	10:30 a.m.	Children's Program: Seedlings	9
5	2:00 p.m.	Tour: An Afternoon in the Garden	10
6	10:30 a.m.	Children's Program: Sprouts	10
6	12:00 p.m.	Lunchtime Tour of the Conservatory	9
7	10:30 a.m.	Parent & Child Program: Snugglers	11
8	12:00 p.m.	Lunchtime Tour of the Conservatory	9
11	12:00 p.m.	Lunchtime Tour of the Conservatory	9
12	2:00 p.m.	Tour: An Afternoon in the Garden	10
13	10:30 a.m.	Tour: Backstage Pass: The USBG Production Facility	11
13	12:00 p.m.	Lunchtime Tour of the Conservatory	9
14	10:30 a.m.	Parent & Child Program: Snugglers	11
15	12:00 p.m.	Lecture: Harnessing the Power of Prairie	12
15	12:00 p.m.	Lunchtime Tour of the Conservatory	9
15	7:00 p.m.	Children's Program: Night Adventure	13
16	7:00 p.m.	Children's Program: Night Adventure	13
18	10:30 a.m.	Lecture: Sugar: History, Botany, Production & Processing	13
18	12:00 p.m.	Lunchtime Tour of the Conservatory	9
19	2:00 p.m.	Tour: An Afternoon in the Garden	10
20	12:00 p.m.	Lunchtime Tour of the Conservatory	9
21	10:30 a.m.	Parent & Child Program: Snugglers	11
21	4:30 p.m.	Teacher Training: How Plants Work	14
22	12:00 p.m.	Lunchtime Tour of the Conservatory	9
23	10:30 a.m.	Lecture: Making Scree Sexy	14
25	12:00 p.m.	Lunchtime Tour of the Conservatory	9
26	10:30 a.m.	Tour: Backstage Pass: The USBG Conservatory	15
26	2:00 p.m.	Tour: An Afternoon in the Garden	10
27	12:00 p.m.	Lunchtime Tour of the Conservatory	9
28	10:30 a.m.	Parent & Child Program: Snugglers	11
29	12:00 p.m.	Lunchtime Tour of the Conservatory	9

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AT A GLANCE

DATE	TIME	TITLE	PAGE
30	10:30 a.m.	Lecture: The Science & Culture of Coffee	16
30	2:00 p.m.	Lecture: Bananas: Botany, History, Agriculture and Future	17

FEBRUARY

1	12:00 p.m.	Lunchtime Tour of the Conservatory	17
2	10:30 a.m.	Children's Program: Seedlings	18
2	2:00 p.m.	Tour: An Afternoon in the Garden	18
3	10:30 a.m.	Children's Program: Sprouts	19
3	12:00 p.m.	Lunchtime Tour of the Conservatory	17
4	10:30 a.m.	Parent & Child Program: Snugglers	19
4	4:30 p.m.	Teacher Training: How Plants Work	20
5	12:00 p.m.	Lunchtime Tour of the Conservatory	17
6	10:30 a.m.	Lecture: Ignite Your Garden with Spring Wildflowers	20
6	2:00 p.m.	Lecture: The Allure of Native Shrubs and Trees for the Garden	20
8	12:00 p.m.	Lunchtime Tour of the Conservatory	17
9	2:00 p.m.	Tour: An Afternoon in the Garden	18
10	12:00 p.m.	Lunchtime Tour of the Conservatory	17
11	10:30 a.m.	Parent & Child Program: Snugglers	19
12	12:00 p.m.	Lecture: A Botanical Walk Through Black History	21
12	12:00 p.m.	Lunchtime Tour of the Conservatory	17
13	2:00 p.m.	Special Event: For the Love of Chocolate	21
15	12:00 p.m.	Lunchtime Tour of the Conservatory	17
16	10:30 a.m.	Tour: Backstage Pass: The USBG Conservatory	22
16	2:00 p.m.	Tour: An Afternoon in the Garden	18
17	12:00 p.m.	Lunchtime Tour of the Conservatory	17
18	10:30 a.m.	Parent & Child Program: Snugglers	19
19	12:00 p.m.	Lunchtime Tour of the Conservatory	17
20	9:00 a.m.	Art Workshop: Painting Medicinal Plants in Gouache & Watercolor on Vellum	22
20	10:30 a.m.	Fitness Event: Yoga Gathering	23
22	12:00 p.m.	Lunchtime Tour of the Conservatory	17
23	2:00 p.m.	Tour: An Afternoon in the Garden	18
24	12:00 p.m.	Lunchtime Tour of the Conservatory	17
25	10:30 a.m.	Parent & Child Program: Snugglers	19

DATE	TIME	TITLE	PAGE
26	12:00 p.m.	Lecture: The World Orchid Conference/Orchids of South Africa	23
26	12:00 p.m.	Lunchtime Tour of the Conservatory	17
26	6:30 p.m.	Special Event: The Science of Taste	24
27	10:30 a.m.	Lecture: Monocots on the March	25
27	10:30 a.m.	Fitness Event: Yoga Gathering	23
27	2:00 p.m.	Lecture: Photographing Orchids	25
28	9:00 a.m.	Workshop: Focus on Orchids	26
29	12:00 p.m.	Lunchtime Tour of the Conservatory	17

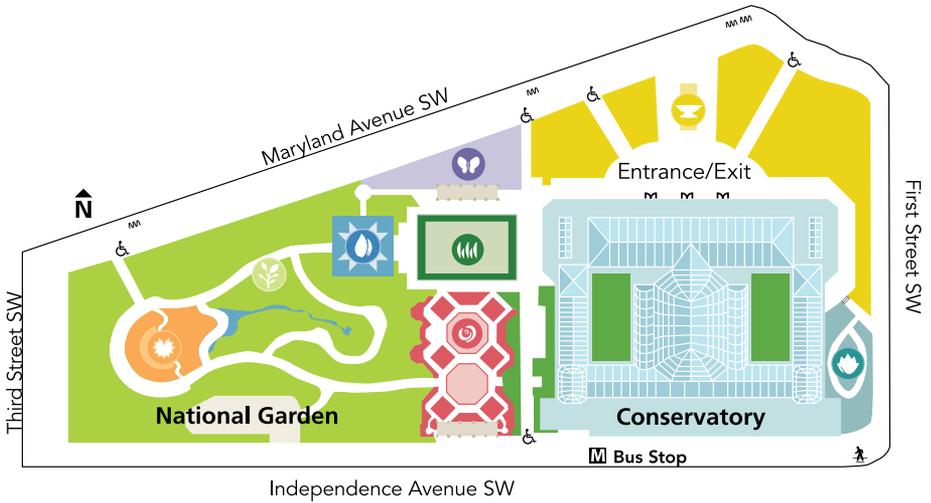
EARLY MARCH

1	10:30 a.m.	Children's Program: Seedlings	27
2	10:30 a.m.	Children's Program: Sprouts	27
3	10:30 a.m.	Parent & Child Program: Snugglers	28
5	9:00 a.m.	Art Workshop: An Introduction to Silk Painting	28
5	10:30 a.m.	Tour: Winter Tree Tour of the Capitol Grounds	29
11	12:00 p.m.	Lecture: The Natural World of Winnie-the-Pooh	29
12	10:00 a.m.	Special Event: Production Facility Open House	30
13	1:30 p.m.	Youth Workshop: Orchids in Focus	30

*Paphiopedilum
haynaldianum*



U.S. Botanic Garden



Amphitheater



Butterfly Garden



First Ladies Water Garden



Lawn Terrace



Regional Garden



Rose Garden



Rain Garden



Terrace Gardens

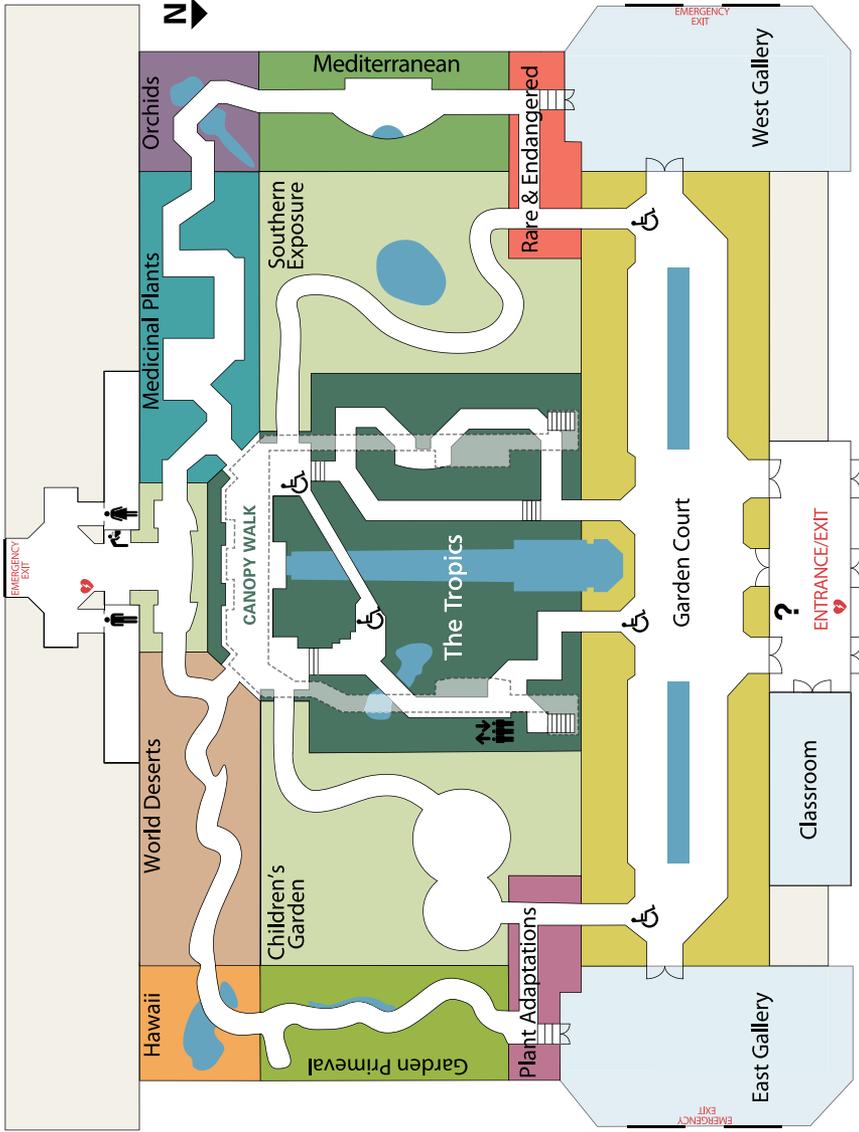


Bartholdi Fountain



-  Accessible Route
-  Bicycle Parking
-  Pedestrian Crosswalk

Conservatory



Rest Rooms Water Fountain ? Information ? Elevator ? Accessible Route ? Automated External Defibrillator (AED)

EXHIBITS

NPS/Robb Hammacker

Joshua Tree National Park



Flora of the National Parks

FEBRUARY 18 THROUGH OCTOBER 2
CONSERVATORY WEST GALLERY

In celebration of the 100th anniversary of the National Park Service, this art exhibit will showcase some of the plant species and communities found throughout the more than 400 national parks. From giant redwoods and aspen forests to endangered *Virginia spiraea* and water lilies, the national parks contain a diverse representation of the North American flora. Both illustrations and photographs will be included in this exhibit that will take you on a tour of the beauty and importance of the American flora.

Orchids in Focus

FEBRUARY 27 THROUGH APRIL 17
CONSERVATORY GARDEN COURT

Orchids in Focus, in partnership with Smithsonian Gardens, highlights the world's largest plant family and the USBG's most extensive plant collection. Found on every continent except Antarctica, orchids amaze with their diversity of forms and colors. Come see for yourself why these exotic beauties have inspired artists and photographers for centuries. Immerse yourself in a floral paradise of orchids from the forest canopy down to the ground, and focus your own camera on these unique and beautiful plants.



Phalaenopsis
cultivar

PROGRAMS

Programs are listed by start date.

TOUR

Lunchtime Tour of the Conservatory

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? 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 medical plant research.

DATES: Mondays, January 4, 11, 18, 25
Wednesdays, January 6, 13, 20, 27
Fridays, January 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

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 5, 12, 19, 26

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 2 at 10 a.m.*



TOUR

An Afternoon in the Garden

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? 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 medical plant research.

DATES: Tuesdays, January 5, 12, 19, 26

TIME: 2 p.m. to 3 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, January 6, 13, 20, 27

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 2 at 10 a.m.*

PARENT & CHILD PROGRAM**Snugglers***USBG Volunteer Docent*

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, January 7, 14, 21, 28

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

LOCATION: Conservatory Garden Court

FREE: Pre-registration required, visit www.usbg.gov

TOUR**Backstage Pass: The U.S. Botanic Garden Production Facility***USBG Staff*

Go behind-the-scenes on this guided highlights tour of the U.S. Botanic Garden Production Facility. Featuring almost two acres of greenhouses, this facility is the largest support facility for a public garden in the U.S. Explore unique and unusual plants from the USBG collection and witness gardeners and horticulturists in action. *Please note:* This is a working greenhouse facility. Some rooms may not be available for viewing due to horticultural need. Please wear comfortable shoes, bring water, and dress in layers, as greenhouse bays may become quite warm. Directions to the facility can be found with the online listing.

DATE: Wednesday, January 13

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

LOCATION: Tour will meet at the entrance to the Production Facility

FREE: Pre-registration required, visit www.usbg.gov



LECTURE

Harnessing the Power of Prairie for Agriculture in Iowa and Beyond

Dr. Lisa Schulte Moore, Associate Professor of Natural Resource Ecology & Management, Iowa State University

Strategically establishing small amounts of perennial vegetation within row crop fields can help farmers achieve soil, water, wildlife, and other conservation goals. This presentation focuses on prairie strips as a cost-effective tool for the agricultural conservation toolbox.

DATE: Friday, January 15

TIME: 12 p.m. to 1 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



Drake Larson



Lisa Schulte Moore

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 9 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, January 15
TIME: 7 p.m. to 9:30 p.m.
LOCATION: Conservatory
FREE: Pre-registration required: Visit www.usbg.gov

DATE: Saturday, January 16
TIME: 7 p.m. to 9:30 p.m.
LOCATION: Conservatory
FREE: Pre-registration required, visit www.usbg.gov

LECTURE**Sugar: History, Botany, Production and Processing***Todd Brethauer, USBG Science Education Volunteer*

Discover the history, botany, production, and processing of sugarcane, sugar beets, and palm sugar. Come trace the movement of this major commodity over thousands of years as it moves from the jungle, fields, and forests to your kitchen table. See how the plant product is transformed and how it transformed countries along the way. Learn about the important roles played by Alexander the Great, Columbus, and Napoleon in sugar production and the special role of Norbert Rillieux (1806–1894), the black American engineer seen by many as the father of the chemical engineering profession.

***Saccharum officinarum***

DATE: Monday, January 19
TIME: 10:30 a.m. to 12 p.m.
LOCATION: Conservatory Classroom
FREE: Pre-registration required, visit www.usbg.gov

TEACHER TRAINING**How Plants Work for Elementary School Teachers**

Lee Coykendall, USBG Children's Program Specialist

Never have time to get to the U.S. Botanic Garden? Join Lee Coykendall for a behind-the-scenes workshop and learn how to use the Garden as an extension of your classroom. This workshop is designed for elementary school teachers.

DATE: Thursday, January 21

TIME: 4:30 p.m. to 7 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



Eryngium 'Big Blue'

LECTURE**Making Scree Sexy**

Peter Couchman, Executive Director, High Glen Gardens

Peter Couchman is a man of many talents. As a designer and horticulture manager at Verdant Garden Design in Brooklyn, he worked on creating private residential landscapes. With Green Roof Associates, he helped create and install a green roof on a new corporate building that “broke the mold” of what people consider a typical green roof. Currently he is leading the transition of High Glen Gardens, which includes a sizeable Mediterranean garden, from a private estate to a public garden. Join Peter as he discusses the challenges and successes of working with a wide range of plant species in these diverse sites. *Please note:* This program is offered in conjunction with the Potomac Valley Chapter of the North American Rock Garden Society.

DATE: Saturday, January 23

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



TOUR

Backstage Pass: Behind-the-Scenes at the U.S. Botanic Garden Conservatory

Ian Donegan, USBG Facility Manager

Join Ian Donegan, USBG Facility Manager, and see what it takes to keep the USBG Conservatory functioning properly, from the various types of water used and ventilation needs of the Garden to the intricate steam systems and controls of the different environmental zones. Take a peek behind-the-scenes during this lively tour and experience the life of USBG Operations personnel.

DATE: Tuesday, January 26

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

LOCATION: Tour meets in the center of the Garden Court

FREE: Pre-registration required, visit www.usbg.gov

LECTURE

The Science and Culture of Coffee

Dr. Sarada Krishnan, Director of Horticulture and Center for Global Initiatives, Denver Botanic Gardens

Coffee is an important agricultural commodity contributing significantly to the economies of many developing countries. Of the 125 species of *Coffea*, the two main commercial species used in the production of the beverage are *C. arabica* (Arabica coffee) and *C. canephora* (robusta coffee). Arabica coffee accounts for about 70% of the total coffee production. Sarada will talk about the botany and production of coffee and the research she has been involved in.

DATE: Saturday, January 30

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



Coffea arabica

LECTURE**Bananas: Botany, History, Agriculture and Future**

Todd Brethauer, USBG Science Education Volunteer

Bananas are the most popular fruit in the world and a major food staple for hundreds of millions of people in the tropics. Join Todd Brethauer as he traces the 7,000-year journey of the banana from the jungles of Southeast Asia to your breakfast table. Learn how humans have guided the development of the banana for many different uses—dessert, plantains, fiber, and beer. In the American grocery store, we see only a tiny fraction of the varieties that are grown around the world. Explore how knowledge of the genome of one of the wild ancestors of cultivated bananas helps breeders counter new fungal, bacterial, and viral diseases that threaten production.



Musa velutina

Todd Brethauer

DATE: Saturday, January 30

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

TOUR**Lunchtime Tour of the Conservatory**

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? 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 medical plant research.

DATES: Mondays, February 1, 8, 15, 22, 29

Wednesdays, February 3, 10, 17, 24

Fridays, February 5, 12, 19, 26

TIME: 12 p.m. to 1 p.m.

LOCATION: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



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 February is a repeat of January.

DATES: Tuesdays, February 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, January 6 at 10 a.m.*

TOUR

An Afternoon in the Garden

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? 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 medical plant research.

DATES: Tuesdays, February 2, 9, 16, 23

TIME: 2 p.m. to 3 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. Program in February is a repeat of January.

DATES: Wednesdays, February 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, January 6 at 10 a.m.***PARENT & CHILD PROGRAM****Snugglers***USBG Volunteer Docent*

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, February 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

TEACHER TRAINING

How Plants Work for Middle and High School Teachers

Lee Coykendall, USBG Children's Program Specialist

Never have time to get to the U.S. Botanic Garden? Join Lee Coykendall for a behind-the-scenes workshop and learn how to use the Garden as an extension of your classroom. This workshop is designed for middle and high school teachers.

DATE: Thursday, February 4

TIME: 4:30 p.m. to 7 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

LECTURE

Ignite Your Garden with Spring Wildflowers

Rick J. Lewandowski, Shangri La Botanical Gardens and Nature Center



The ideal way to usher in spring is to incorporate native wildflowers into your garden for spectacular early season beauty. Native wildflowers are often overlooked, yet, they provide amazing color, texture, beauty, and adaptability. Join Rick for an overview of spring wildflowers for your garden. Along the way, you are sure to expand your gardening palette and go home with a renewed appreciation for native plant diversity.

DATE: Saturday February 6

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

LECTURE

The Allure of Native Shrubs and Trees for the Garden

Rick J. Lewandowski, Shangri La Botanical Gardens and Nature Center

Explore the tremendous diversity of common and uncommon native shrubs and trees that can bring beauty and utility to your garden. There is an amazing array of shrubs and trees for virtually any garden situation, and many under-appreciated gems worthy of exploring for your garden. Join Rick for an overview of native trees and shrubs and a primer on selecting plants for specific conditions.

DATE: Saturday February 6

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

LECTURE

A Botanical Walk Through Black History

*Kobinah Abdul-Salim, Ph.D., Department of Biology, Medgar Evers College
(City University of New York)*

Although we are aware of the many ways in which plants have been critically important in the shaping of human history, there are many stories that remain largely untold. In this presentation, Dr. Abdul-Salim will examine how the histories of the black presence in the Western Hemisphere are intimately linked to the uses and study of plants and plant-based resources. The “tour” will begin with a look at traditional and indigenous botanical knowledge, its impact in the development of commerce and industry, and move through modern-day botanical science and conservation.

DATE: Friday, February 12

TIME: 12 p.m. to 1 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



SPECIAL EVENT

For the Love of Chocolate

Adam Kavalier, Co-Founder, Undone Chocolate

Chocolate and love are inseparable. Dr. Adam Kavalier, co-founder of Undone Chocolate, a D.C. based craft chocolate maker, will walk us through the intricate relationship between chocolate, chemistry, and love. He will present the story of chocolate, describing where it comes from, how it is made, and the love chemicals it contains. The story starts with the cocoa bean and travels to the chocolate bar, and along the way there are several smells and flavors that will be shared, including a chocolate tasting from different regions around the world.

DATE: Saturday, February 13

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

TOUR**Backstage Pass: Behind-the-Scenes at the U.S. Botanic Garden Conservatory***Ian Donegan, USBG Facility Manager*

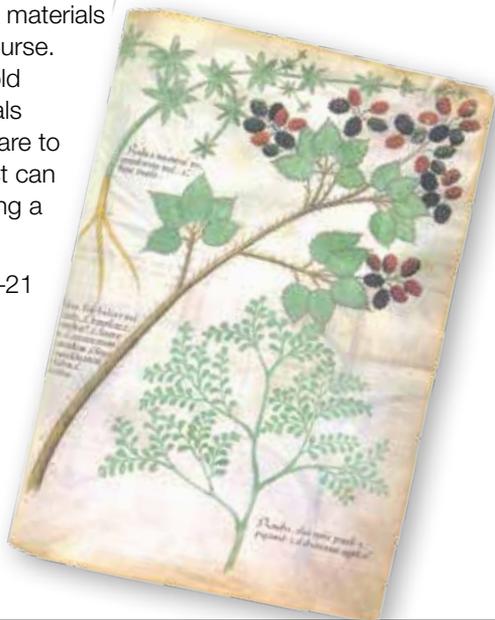
Join Ian Donegan, USBG Facility Manager, and see what it takes to keep the USBG Conservatory functioning properly, from the various types of water used and ventilation needs of the Garden to the intricate steam systems and controls of the different environmental zones. Take a peek behind-the-scenes during this lively tour and experience the life of USBG Operations personnel.

DATE: Tuesday, February 16**TIME:** 10:30 a.m. to 11:30 a.m.**LOCATION:** Tour meets in the center of the Garden Court**FREE:** Pre-registration required, visit www.usbg.gov**ART WORKSHOP****Painting Medicinal Plants in Gouache and Watercolor on Vellum with 24K Gold Leaf Embellishment***Jean Brinton Jaecks, Artist*

Since antiquity the beautiful grain and luminescent quality of vellum (animal skin) has been a preferred support for artists. The U.S. Botanic Garden collection of medicinal plants will be the subject matter for this gouache and watercolor workshop. Fundamental techniques in rendering objects in gouache and watercolor on vellum will be demonstrated. Gold leaf will be used as an embellishment. *Please note:* A materials fee of \$50 is included in the cost of the course. This fee will cover the vellum, gold leaf, gold leaf size, use of burnishers, and all materials associated with gilding. All other supplies are to be provided by the student. A materials list can be found with the online listing. Please bring a lunch.

DATE: Saturday and Sunday, February 20–21**TIME:** 9 a.m. to 4:30 p.m.**LOCATION:** Conservatory Classroom**FRIENDS:** \$200**NON-MEMBERS:** \$225

Pre-registration required,
visit www.usbg.gov



FITNESS EVENT**Practice with Love Yoga Gatherings:
Stop and Smell the Roses**

Heather Markowitz, Founder, WithLoveDC

WithLoveDC is a movement to spread love, joy, and acceptance throughout the District. The Practice With Love classes aim to create an accessible space for all people to tune into their breath while enjoying the amazing spaces around our beautiful city. WithLoveDC is thrilled to bring their free yoga gatherings to the U.S. Botanic Garden; come flow with us! *Please note:* This program is first-come, first-served with limited space available. Visitors are encouraged to bring their own mats.

DATE: Saturday, February 20, 27

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

LOCATION: Conservatory West Gallery

FREE: No pre-registration required

**LECTURE****The World Orchid Conference and the
Spectacular Orchids of South Africa**

Tom Mirenda, Orchid Collection Specialist, Smithsonian Institution

Last September, Tom attended the World Orchid Conference in Johannesburg, South Africa. While at the conference, he presented a conservation initiative and had the opportunity to travel within the country. Join Tom as he speaks about the conference, visiting local orchid experts, and seeing the amazing indigenous flora and fauna that grow in that astonishingly spectacular part of the world.

DATE: Friday, February 26

TIME: 12 p.m. to 1 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



Disa uniflora

SPECIAL EVENT

The Science of Taste

Rachel Meyer, Ph.D., Evolutionary Botanist, AAAS Science and Technology Policy Fellow, Co-Founder of Shoots and Roots Bitters

People around the world experience taste differently. As we grow up and experience the world around us, our ability to taste changes, as do our preferences. In this hands-on workshop, we use global foods and delicious botanically-rich cocktails to explore the sense and science of taste. It's not all just salty, sweet, sour, bitter, and umami, but now people are considering mineral, floral, and even numbing as new basic tastes. Learn the physiological process of how these new sensations happen, in what ingredients they can be found, and why those flavors exist in our food to begin with. And for our inquisitive sides, we'll

survey our own abilities to perceive taste: might you have retained Neanderthal supertaster capabilities? Where in the world have humans lost the most genes to taste sour, and how do you fit in? For the culinary adventurer in all of us, cocktails and a wine tasting will be paired with exotic delicacies that adjust the senses and let us test ourselves. *Please note:* This program is intended for those 21 years of age and older. Small bites will be served to accompany the tasting journey.

DATE: Friday, February 26

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

LOCATION: Conservatory Garden Court

FRIENDS: \$25

NON-MEMBERS: \$35

Pre-registration required, visit www.usbg.gov



LECTURE**Monocots on the March**

*Todd Brethauer, USBG Science
Education Volunteer*

Ranging in size from delicate orchids smaller than a thimble to towering palms more than 100 feet tall, about one-quarter of all flowering plants are monocots. They play critical roles in agricultural systems and natural ecosystems around the world. Come learn about the evolution, history, diversity, cultivation, and beauty of this fascinating group of plants and where orchids fit in the plant kingdom.

DATE: Saturday, February 27

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



Neomarica gracilis

Todd Brethauer



Phragmipedium besseae



Rhyncocattleanthe Graf's Pick

LECTURE**Photographing Orchids:
From the Smithsonian to the
Rainforests of Colombia**

*Bryan "BJ" Ramsay, Volunteer Photographer,
Smithsonian Gardens*

Join BJ for this photographic exploration of orchids and discuss various photographic techniques for capturing "fine art" photographs of orchids from several different locations. Learn specific skills for beginner-to-intermediate-level photographers that can help in getting that special shot of one of nature's truly unique flowers.

DATE: Saturday, February 27

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

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov

WORKSHOP

Focus on Orchids

Josh Taylor, Jr., Photographer

Capture the natural beauty of orchids at the U.S. Botanic Garden during this year's *Focus on Orchids* exhibition. This all-day workshop will center on how to capture compelling images of orchids through close-up photography, light and background control, and composition. The workshop includes a three-hour morning shoot with the instructor in the Garden Court and classroom, online pre-workshop instruction, an illustrated handout, and the introduction of Photoshop/Photoshop Elements post-processing techniques to enhance images of orchids. The afternoon session will be devoted to post-processing techniques using participants' images for demonstrations. *Please note:* A materials list can be found with the online listing. Participants should have a working knowledge of their camera. Some activities are not applicable to point-and-shoot cameras. Please bring a lunch.

DATE: Sunday, February 28

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

LOCATION: Conservatory Classroom

FRIENDS: \$50

NON-MEMBERS: \$75

Pre-registration required, visit www.usbg.gov

Iwanagara
Appleblossom

Josh Taylor, Jr.

UPCOMING PROGRAMS

Mark your calendars for these programs in early March!

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, March 1, 8, 15, 22

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, February 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, March 2, 9, 16, 23

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, February 3 at 10 a.m.*



PARENT & CHILD PROGRAM**Snugglers***USBG Volunteer Docent*

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, March 3, 10, 17, 24, 31

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

LOCATION: Conservatory Garden Court

FREE: Pre-registration required, visit www.usbg.gov

WORKSHOP**An Introduction to Silk Painting**

Mary Ellen Carsley, Professional Artist/Illustrator and Visual Arts Coordinator at Severn School

This workshop explores the fundamentals of silk painting using orchids as the focus of study. Open to students of all experience levels, the workshop includes basic drawing and water-based media painting techniques with a study of values to capture form. Basic plant morphology, history of botanical illustration and silk painting, as well as simple color theory and an exploration of composition principles in both Eastern and Western art traditions will be discussed. *Please note:* A materials list can be found with the online listing. Please bring a lunch.

DATE: Saturday and Sunday, March 5-6

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

LOCATION: Conservatory Classroom

FRIENDS: \$150

NON-MEMBERS: \$175

Pre-registration required, visit www.usbg.gov



TOUR

Winter Tree Tour of the Capitol Grounds

Melanie Choukas-Bradley, Author of *City of Trees*



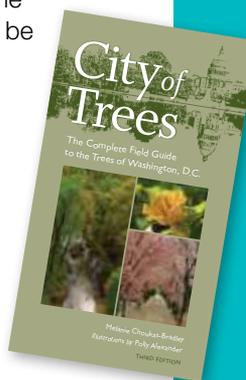
Winter is the best time to appreciate the architecture of the historic trees gracing the U.S. Capitol grounds. Stroll around the Capitol with Melanie Choukas-Bradley, admiring and learning about its magnificent trees from around the country and the world. Learn to identify Kentucky coffee-trees, Japanese pagoda trees, beeches, magnolias and dogwoods during winter. Melanie Choukas-Bradley will focus on the bark, buds, and overall growth habit of grand old trees, including many official state trees and memorial plantings. Giant sequoias and a massive willow oak are among the trees on the tour. Melanie Choukas-Bradley will share history of the Capitol grounds and the city of Washington throughout the tour. *Please note:* This tour is held outdoors. Please come prepared to be outside in the winter weather. The tour is canceled if it rains or snows.

DATE: Saturday, March 5

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

LOCATION: Tour will meet in front of the USBG Conservatory entrance on the Terrace

FREE: Pre-registration required, visit www.usbg.gov



LECTURE

The Natural World of Winnie-the-Pooh: A Walk Through the Forest that Inspired the Hundred Acre Wood

Kathryn Aalto, American Landscape Designer, Historian, Writer and Lecturer



Join Kathryn Aalto for a lively and illustrative talk focused on the flora and fauna of Ashdown Forest, the real setting where Winnie-the-Pooh, Christopher Robin and their friends had their daring Expotitions. From kings to commoners, Ashdown Forest is manmade—a fascinating and highly-protected natural *and* literary landscape shaped over a thousand years by people and their activities. This has resulted in rare flora and fauna which fascinated Charles Darwin, W.B. Yeats, Ezra Pound and, of course, A. A. Milne. Learn also how in his later years, the real Christopher Robin helped preserve the landscape he made famous and which people around the world cherish. The photographer for her book, Kathryn will share images from her adventures writing *The Natural World of Winnie-the-Pooh: A Walk in the Forest that Inspired the Hundred Acre Wood*.

DATE: Friday, March 11

TIME: 12 p.m. to 1 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



SPECIAL EVENT

U.S. Botanic Garden Production Facility Open House

USBG Staff and Volunteers

****Not to be Missed!**** Rarely does the public get to see our growing facility, the largest greenhouse complex supporting a public garden in the United States. The site, completed in 1994, includes 85,000 square feet under glass, divided into 34 greenhouse bays and 16 environmental zones. In addition to foliage and nursery crops, you'll see all of the USBG collection not currently on display, including orchids, medicinal plants, carnivorous plants, and rare and endangered species. Register for one of the open house times to get a brief orientation to the facility, meet the gardeners, ask questions, and wander through this working wonderland of plants. *Please note:* Limit of 50 people per entry time. Light snacks and beverages will be provided. No registrations will be taken at the door. The Open House ends at 2:30 p.m.

DATE: Saturday, March 12

ENTRY TIMES: 10 a.m., 10:30 a.m., 11 a.m., 11:30 a.m., 12:30 p.m., 1 p.m., 1:30 p.m.

LOCATION: USBG Production Facility (directions can be found with the online listing)

FRIENDS: \$5

NON-MEMBERS: \$10

Pre-registration required, visit www.usbg.gov

YOUTH WORKSHOP

Orchids in Focus

Lee Coykendall, USBG Children's Education Specialist

Interested in science and art? Join Lee for a hands-on workshop where students will dissect an orchid and using microscopes, bringing its parts into focus in order to understand just how orchids work. Using our *Orchids in Focus* exhibit for inspiration, students will then create original pieces of art. *Please note:* This workshop is designed for students between the ages of 12–16. Parents and care-providers are welcome to attend, but are not required to do so.

DATE: Sunday, March 13

TIME: 1:30 p.m. to 3:30 p.m.

LOCATION: Conservatory Classroom

FREE: Pre-registration required, visit www.usbg.gov



GARDEN TOURS ON YOUR MOBILE PHONE

Use your mobile phone to have a private tour of the Garden and plants at the United States Botanic Garden.

PHONE CALL OPTION

1. Dial the tour number: 202-730-9303.
2. Enter the stop number on the sign.

SMARTPHONE OPTION

1. Dial the tour number: 202-730-9303.
2. You will be sent a text message with instructions for streaming audio.

QR CODE OPTION

Scan the QR codes on the signs with your smart phone or tablet.

CONSERVATORY

- 1 USBG Brief History
- 10 Garden Court
- 20 West Gallery
- 30 Rare & Endangered Plants
- 50 Orchids
- 60 Medicinal Plants
- 70 World Deserts
- 80 Hawaii
- 90 Garden Primeval
- 100 Plant Adaptation
- 120 Children's Garden
- 130 The Tropics
- 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 any time. 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 an explorer's lens.



BECOME A FRIEND OF 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 Hands On Plant Science (HOPS) summer program, the National Garden Internship, Landscape for Life, and D.C. Teachers Night.

Partners in Education

The U.S. Botanic Garden and the National Fund for the United States Botanic Garden jointly sponsor public programs. Registration fees for programs are administered by the Fund. These fees allow the Garden to provide a range of educational programs, led by to outstanding instructors and lecturers. Please consider becoming a Friend of the National Fund to help support the U.S. Botanic Garden's many on-site educational programs and events.

Contributions are tax-deductible.
Membership benefits are listed below:

FRIEND (\$75 per year)

- Complimentary admission for you and your family to the Holiday Show Preview event
- Discounted registration fees for programs sponsored by the USBG
- National Fund Newsletter
- Quarterly USBG Calendar of Events

JUNIOR FRIEND (for First Friends under 40; \$150 per year)

- All benefits listed previously plus:
- Two complimentary admissions to the spring Cocktails in the Garden event

FIRST FRIEND (\$250 per year)

- All benefits listed previously

NATIONAL FRIEND (\$500 per year)

- All benefits listed previously plus:
- Two additional admissions (4 total) to the spring Cocktails in the Garden event

CAPITOL FRIEND (\$1,000 per year)

- All benefits listed previously plus:
- Two additional admissions (6 total) to the spring Cocktails in the Garden event

To learn more visit

www.nfusbg.org/membership

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./Dr.

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
- I am not interested in membership at this time

Program Title

of Participants

Fees

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

FRIEND membership _____

Total Fees _____

Make check payable to **NFUSBG** or charge to: Visa Mastercard Discover

Card Number

Expiration Date

Signature





United States Botanic Garden

245 First Street, SW
Washington, DC 20024