



UNITED STATES BOTANIC GARDEN

# Calendar of Events

January–February 2015



# 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 and the East Gallery feature thematic displays.

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** is across Independence Avenue from the Conservatory. Here visitors will find a tapestry of theme gardens surrounding the historic Bartholdi Fountain. The gardens showcase 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 25 adults may reserve a free 45-minute guided tour of the Conservatory Monday through Friday.

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 at [www.usbg.gov](http://www.usbg.gov)**

## **For More Information**

General Information & Accessibility at the USBG: 202-226-8333

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
<b>January</b>			
5	12:00 p.m.	Lunchtime Tour of the Conservatory	9
6	10:30 a.m.	Seedlings	9
6	2:00 p.m.	Tour: An Afternoon in the Garden	10
7	10:30 a.m.	Sprouts	10
7	12:00 p.m.	Lunchtime Tour of the Conservatory	9
8	10:30 a.m.	Snugglers	10
9	12:00 p.m.	Lunchtime Tour of the Conservatory	9
12	12:00 p.m.	Lunchtime Tour of the Conservatory	9
13	12:00 p.m.	Tour: Medicinal and Poison Plants	11
13	2:00 p.m.	Tour: An Afternoon in the Garden	10
14	12:00 p.m.	Lunchtime Tour of the Conservatory	9
15	10:30 a.m.	Snugglers	10
16	12:00 p.m.	Lunchtime Tour of the Conservatory	9
17	9:00 a.m.	Art Workshop: Plants and the Fibonacci Sequence	11
19	10:30 a.m.	Lecture: A History of Sugar	12
19	12:00 p.m.	Lunchtime Tour of the Conservatory	9
19	1:00 p.m.	Tour: Culinary and Medicinal Plants of Africa	12
20	2:00 p.m.	Tour: An Afternoon in the Garden	10
21	10:30 a.m.	Tour: Explore with the Executive Director	13
21	12:00 p.m.	Lunchtime Tour of the Conservatory	9
22	10:30 a.m.	Snugglers	10
23	12:00 p.m.	Cooking Demonstration: Winter Salads	13
23	12:00 p.m.	Lunchtime Tour of the Conservatory	9
23	7:00 p.m.	Night Adventure at the USBG	14
24	7:00 p.m.	Night Adventure at the USBG	14
26	12:00 p.m.	Lunchtime Tour of the Conservatory	9
27	2:00 p.m.	Tour: An Afternoon in the Garden	10
28	12:00 p.m.	Lunchtime Tour of the Conservatory	9
29	10:30 a.m.	Snugglers	10
29	12:00 p.m.	Cooking Demonstration: Winter Salads	13
29	4:30 p.m.	Teacher Training: How Plants Works	14

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Starting Date	Time	Title	Page
30	12:00 p.m.	Lunchtime Tour of the Conservatory	9
30	12:00 p.m.	Lecture: Ancient Wisdom and Modern Medicine	15
31	10:30 a.m.	Lecture: Ten Tips for Tighter Buns	15
<b>February</b>			
2	12:00 p.m.	Lunchtime Tour of the Conservatory	16
3	10:30 a.m.	Seedlings	16
3	2:00 p.m.	Tour: An Afternoon in the Garden	17
4	10:30 a.m.	Sprouts	17
4	12:00 p.m.	Lunchtime Tour of the Conservatory	16
4	1:00 p.m.	Workshop: Connecting Generations	18
5	10:30 a.m.	Snugglers	18
6	12:00 p.m.	Lunchtime Tour of the Conservatory	16
6	12:00 p.m.	Lecture Series: Botanic Gardens from Old World to New World: Pompeii	19
7	9:00 a.m.	Art Workshop: Medieval Illumination: Silver Leaf	20
7	10:30 a.m.	Practice With Love Yoga Gathering	20
9	12:00 p.m.	Lunchtime Tour of the Conservatory	16
10	2:00 p.m.	Tour: An Afternoon in the Garden	17
11	12:00 p.m.	Lunchtime Tour of the Conservatory	16
12	10:30 a.m.	Snugglers	18
13	12:00 p.m.	Lunchtime Tour of the Conservatory	16
13	12:00 p.m.	Lecture Series: Botanic Gardens from Old World to New World: Cordoba	19
13	1:00 p.m.	Demonstration: The Language of Flowers: Victorian Bouquet Making	21
14	10:30 a.m.	Practice With Love Yoga Gathering	20
16	12:00 p.m.	Lunchtime Tour of the Conservatory	16
17	2:00 p.m.	Tour: An Afternoon in the Garden	17
18	12:00 p.m.	Lunchtime Tour of the Conservatory	16
19	10:30 a.m.	Snugglers	18
19	12:00 p.m.	Cooking Demonstration: Hearty Casseroles	21
20	12:00 p.m.	Lunchtime Tour of the Conservatory	16
20	12:00 p.m.	Lecture Series: Botanic Gardens from Old World to New World: Padua	19
21	10:00 a.m.	OrKID Family Festival	22
21	10:00 a.m.	Winter Tree Tour of the Capitol Grounds	22
21	10:30 a.m.	Practice With Love Yoga Gathering	20
23	12:00 p.m.	Lunchtime Tour of the Conservatory	16

Starting Date	Time	Title	Page
24	2:00 p.m.	Tour: An Afternoon in the Garden	17
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26	10:30 a.m.	Snugglers	18
26	12:00 p.m.	Cooking Demonstration: Hearty Casseroles	21
26	4:30 p.m.	Teacher Training: How Plants Work	23
27	12:00 p.m.	Lunchtime Tour of the Conservatory	16
27	12:00 p.m.	Lecture Series: Botanic Gardens from Old World to New World: Birth of Modern Botany	19
28	10:30 a.m.	Lecture: Bananas: Botany, History, Agriculture and Future	23
28	10:30 a.m.	Practice With Love Yoga Gathering	20
28	2:00 p.m.	Lecture: Citrus: Botany, Chemistry, History and Future Lecture	24










#### Early March

3	10:30 a.m.	Seedlings	26
4	10:30 a.m.	Sprouts	26
7	10:00 a.m.	Open House: U.S. Botanic Garden Production Facility	27

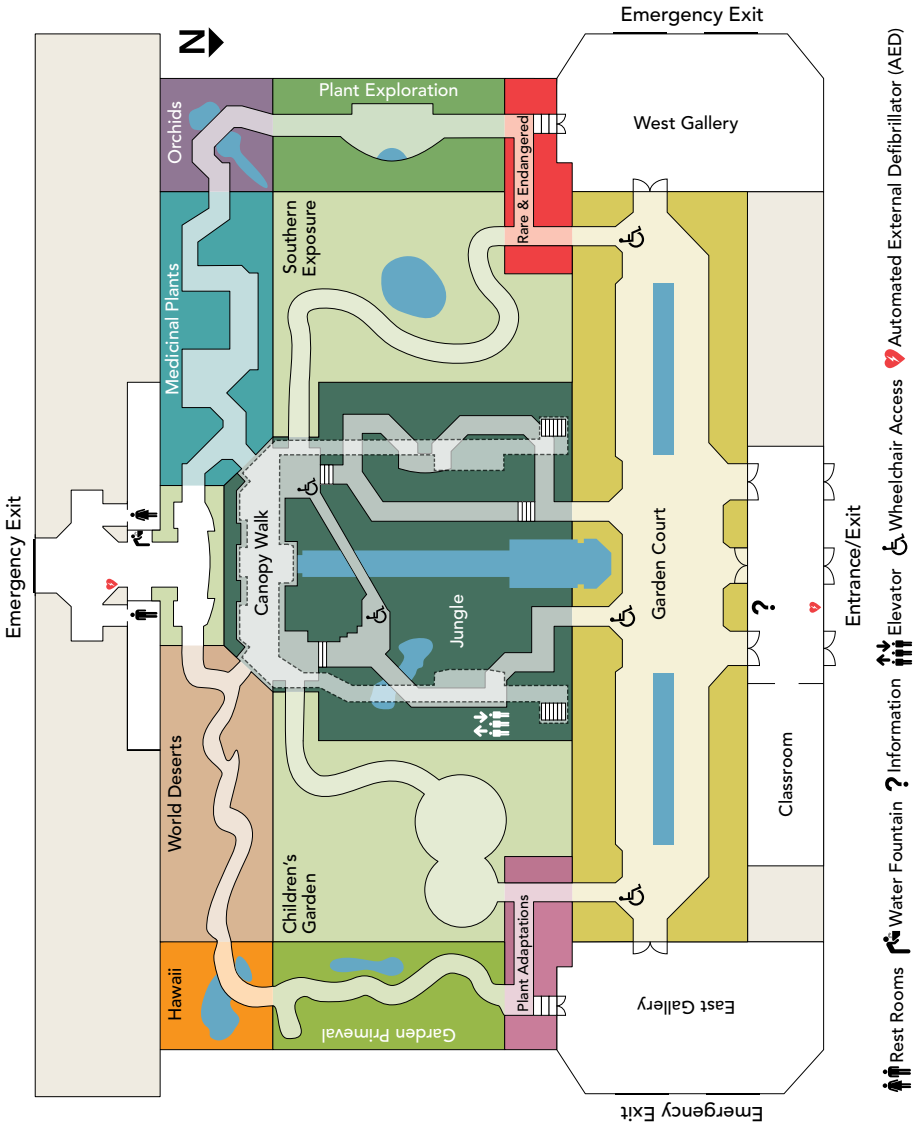


# U.S. Botanic Garden



-  Amphitheater
-  Butterfly Garden
-  First Ladies Water Garden
-  Lawn Terrace
-  Regional Garden
-  Rose Garden
-  Rain Garden
-  Terrace Gardens
-  Bartholdi Fountain





# Exhibits

## EXPOSED: THE SECRET LIFE OF ROOTS

Conservatory East Gallery

February 21 through October 13

Plant roots are vital components of the earth's ecosystem. They are necessary for plant growth, including the production of food and nutrients for humans and many other organisms. However, as root systems are out of sight, their beauty and importance often go unnoticed. *Exposed: The Secret Life of Roots* uses the work of Dr. Jerry Glover and photographer Jim Richardson to showcase the importance of roots in prairie ecosystems through visually stunning root representations.



Photo by Jim Richardson



# Programs

*Programs are listed by start date.*

## 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, January 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

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

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

**Location:** Tour meets in the Conservatory Garden Court

**FREE:** No pre-registration required

**Dates:** Fridays, January 9, 16, 23, 30

**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 6, 13, 20, 27

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required:

Visit [www.usbg.gov](http://www.usbg.gov)\*

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



## Tour AN AFTERNOON IN THE GARDEN

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

**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 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](http://www.usbg.gov)\*

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



## Parent & Child Program

### SNUGLERS

*USBG Volunteer*

Do you have a tiny treasure in a snugly? 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 snugly. **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 8, 15, 22, 29

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

**Location:** Conservatory Garden Court

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Tour

### 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, January 13

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

**Location:** Tour meets in the Conservatory Garden Court

**FREE:** No pre-registration required



## Art Workshop

### PLANTS AND THE FIBONACCI SEQUENCE

*Mary Ellen Carsley, Artist, Visual Arts Coordinator at Severn School*

Different plants grow in a variety of predictable and measurable patterns. Understanding these patterns can develop the artistic eye and drawing skill. This course is designed for artists of all levels of experience wishing to develop their skill in recognizing mathematical and geometric patterns in both two and three dimensions to hone their observation and drawing skills. Basic to advanced drawing and composition skills with a variety of botanical subjects will be covered and fundamental geometric constructions and aesthetic mathematic functions will be explored. **Please note:** A materials list can be found with the online listing. Please bring a lunch.

**Dates:** Saturday and Sunday, January 17–18

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

**Location:** Conservatory Classroom

**Friends:** \$150

**Non-members:** \$175

**Pre-registration required:** Visit [www.usbg.gov](http://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.

**Date:** Monday, January 19

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



*Saccharum officinarum*  
Photo by Todd Brethauer

## Tour

### EXPLORING CULINARY AND MEDICINAL AFRICAN PLANTS

*Beth Burrous, Biochemist and USBG Volunteer*

Many foods and medicines come from African plants. For example, more than 70 percent of the world's cocoa (chocolate) beans are grown by African farmers. Join Beth Burrous on a walking tour of the Conservatory highlighting African plants that are used to make everything from life-saving medicines to sweet and savory foods and coffee.

**Date:** Monday, January 19

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required



## Tour

### EXPLORE WITH THE EXECUTIVE DIRECTOR

*Dr. Ari Novy, USBG Executive Director*

Join USBG Executive Director Dr. Ari Novy on an expedition through the collections of the U.S. Botanic Garden. Dr. Novy will share stories of his favorite plants, the history of the institution, and the many unique treasures contained within the Garden's walls during the winter season.

**Date:** Wednesday, January 21

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

**Location:** Tour will meet in the Conservatory Garden Court

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Cooking Demonstration

### WINTER SALADS

*Adrienne Cook, Gardening and Cooking Writer and Danielle Cook, MS, Nutritionist and Cooking Instructor*

Salads aren't just for summer — this class will introduce you to new ways to use raw fruits and vegetables to boost your diet and add flavor and texture to a sometimes bland season. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

**Date:** Friday, January 23

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required



**Date:** Thursday, January 29

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required



## 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 23

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

**Location:** Conservatory

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



**Date:** Saturday, January 24

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

**Location:** Conservatory

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)

## Teacher Training

### HOW PLANTS WORK FOR ELEMENTARY SCHOOL TEACHERS

*Lee Coykendall, USBG Children's Education 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 29

**Time:** 4:30 p.m. to 7 p.m.

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Lecture

### ANCIENT WISDOM AND MODERN MEDICINE: PLANTS, PEOPLE, AND CULTURES IN THE TROPICAL RAINFOREST

*Michael J. Balick, Ph.D, Vice President and Director, Institute of Economic Botany, The New York Botanical Garden*

Tropical forests are a rich reservoir of biological diversity, home to a vast range of flora and fauna. This lecture discusses the study of plants used in traditional healing by indigenous cultures, the science of ethnomedicine.

In the Pacific Islands known as Micronesia, Dr. Michael Balick is working with an interdisciplinary team

to inventory the vegetation of Pohnpei, Kosrae and Palau Islands and their surrounding atolls and document the traditional uses of plants. Traditional knowledge can be of great value in addressing contemporary issues in public health and conservation. In seeking to show the potential of traditional knowledge and practices in the modern world, as well as preserve the biodiversity upon which it depends, scientists find themselves in a race against time, with both tropical ecosystems being destroyed and ancient wisdom about the plants and their environment rapidly being lost.

**Date:** Friday, January 30

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Lecture

### TEN TIPS FOR TIGHTER BUNS

*Carlo Balistrieri, Vice President of Preservation for the Garden Conservancy*

Join Carlo Balistrieri as he gives practical advice on growing cushion plants. During this lively discussion, Carlo will share his enthusiasm for hands-on gardening and experience with helping plants survive under challenging conditions. **Please note:**

This lecture is being offered in conjunction with the Potomac Chapter of the Rock Garden Society. Only 20 seats will be available for U.S. Botanic Garden visitors.

**Date:** Saturday, January 31

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://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, February 2, 9, 16, 23

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

**Location:** Tour meets in the Conservatory Garden Court

**FREE:** No pre-registration required

**Dates:** Wednesdays, February 4, 11, 18, 25

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

**Location:** Tour meets in the Conservatory Garden Court

**FREE:** No pre-registration required

**Dates:** Fridays, February 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

## 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 3, 10, 17, 24

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)\*

\***Please note:** Registration opens on Wednesday, January 7 at 10 a.m.





## Tour

### AN AFTERNOON IN THE GARDEN

*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:** Tuesdays, February 3, 10, 17, 24

**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 4, 11, 18, 25

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)\*

\***Please note:** Registration opens on Wednesday, January 7 at 10 a.m.



## Workshop

### CONNECTING GENERATIONS THROUGH THE WONDERFUL WORLD OF PLANTS

*Lee Coykendall, USBG Children's Education Specialist and Maura Nelson, USBG Volunteer Coordinator*

This is a three part workshop to empower “grandparents” on how to use the Botanic Garden to excite the younger generation about the magical world of plants. The first session is the pre-visit– what are the hooks and books to prepare for the Garden visit. Next, learn a story for each room of the Conservatory and leave a plant storyteller.

This workshop concludes with the creation of a toolkit filled with fun plant activities to continue the adventures at home. **Please note:** This is a three part workshop; the hope when registering is for participants to attend all three sessions. Adults only please, but plan to bring the kids later!

**Date:** Wednesdays, February, 4, 11, 18

**Time:** 1 p.m. to 3 p.m.

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Parent & Child Program

### SNUGGLERS

*USBG Volunteer*

Do you have a tiny treasure in a snugly? 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 snugly. **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 5, 12, 19, 26

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

**Location:** Conservatory Garden Court

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



## Lecture Series

### BOTANIC GARDENS FROM OLD WORLD TO NEW WORLD

*Alain Touwaide, Scientific Director, Institute for the Preservation of Medical Traditions, and Research Associate, Smithsonian Institution*

Botanic gardens are sanctuaries of nature. They are an image of plant diversity in an enclosed space that gives a sense of the infinite diversity of the world. While their creation is often linked to the rise of modern science, this lecture series will showcase how botanic gardens, with a focus on medicinal and nutritional plants, have been present for millennia. Join Alain Touwaide as he virtually explores four gardens and periods of botanical history, investigating all four from new viewpoints. **Please note:** This is a 4-part lecture series. Registrants may sign up for all lectures in the series or select dates within the series.

#### PART 1: POMPEII

Date: Friday, February 6

This Roman city destroyed by the eruption of Mount Vesuvius in 79 CE is most known for its wealth and the pleasant life it offered to its inhabitants. Archaeobotany has brought the gardens of Pompeii to light, revealing spaces where non-native plants were introduced and acclimated. Join Alain Touwaide as he explores these recently revealed ancient gardens, giving light to the stories they tell about medicinal and botanical history.

#### PART 2: CORDOBA

Date: Friday, February 13

Famous for its botanists, Andalusia can trace its botanic garden history to the 8<sup>th</sup> century. Ibn al-Baytar, one of those famous botanists, crossed the Mediterranean in the 13<sup>th</sup> century, collecting information about the region's flora and corresponding medicinal uses. This journey sparked a long history of botanical research and study. Join Alain Touwaide and follow this extraordinary scientific adventure, with Byzantine ambassadors, books, plant representations and magnificent gardens.

#### PART 3: PADUA

Date: Friday, February 20

In the 1540s, students at the Italian university of Padua requested a teaching garden be built to enhance their studies. The construction of this botanic garden gave rise to a swift increase in the development of botanical studies. Join Alain Touwaide to discover overlooked aspects of Renaissance scientific activity, fieldwork and publishing, to gain a new, more vivid image of that time.

#### PART 4: OLD WORLD/NEW WORLD

Date: Friday, February 27

Botany was transformed with the exploration of new continents in the 16<sup>th</sup> century. The collection of newly discovered species was more than most botanic gardens could contain, leading to the creation of thick illustrated botanical volumes. Join Alain Touwaide as he recounts these botanical travels around the world, the creation of illustrated manuscripts and the birth of modern botany with Linnaeus.

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

Location: Conservatory Classroom

FREE: Pre-registration required: Visit [www.usbg.gov](http://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:** Visitors are encouraged to bring their own mats.

**Dates:** Saturdays, February 7, 14, 21, 28

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

**Location:** Conservatory West Gallery

**FREE:** No pre-registration required



## Art Workshop

### MEDIEVAL ILLUMINATION: PAINTING SPRING BULBS ON VELLUM WITH SILVER LEAF AND GLAIR

*Jean Brinton-Jaecks, Artist*

The USBG's exquisite collection of spring bulbs will be the subject of this workshop. Illumination comes from the Latin word *illuminare*, or "light up" as students will incorporate silver leaf enhancing their manuscript page. Artists will explore glair (egg white as a binder) as this free-flowing medium is ideal for miniature painting. Translucent washes of glair will be applied to describe the delicate pearly quality of the bulb with silver leaf as embellishment. Students will learn the grinding of natural mineral pigments, the making and application of glair as well as raised silver leaf on calfskin vellum as a manuscript embellishment. The study of manuscripts and bestiaries from the Late Antique to the Renaissance will enhance the learning experience. **Please note:** A materials fee of \$75 is included in the cost of the course. This fee will cover the dry pigments, vellum, and silver leaf. 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 7–8

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

**Location:** Conservatory Classroom

**Friends:** \$225

**Non-Members:** \$250

**Pre-registration required:** Visit [www.usbg.gov](http://www.usbg.gov)

## Demonstration

### THE LANGUAGE OF FLOWERS: VICTORIAN BOUQUET MAKING

*Amy Brecount White, Author, Forget-Her-Nots*

Plan that perfect Valentine's Day bouquet for your special someone by learning to speak the Language of Flowers in this fun and informative demonstration with Amy Brecount White. Learn how to make bouquets that say "I love you", "thank you" and "best wishes".

*Amy is the author of the young adult novel, Forget-Her-Nots, which features the language of flowers brought magically to life in the hands of 14-year-old Laurel. Amy is also a local freelance writer and college essay tutor.*

**Date:** Friday, February 13

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required



## Cooking Demonstration

### HEARTY CASSEROLES

*Adrienne Cook, Gardening and Cooking Writer and Danielle Cook, MS, Nutritionist and Cooking Instructor*

Whether you're eating in or brining a dish to a friend or neighbor's for dinner, this class is sure to spark fabulous new ideas for memorable one-dish meals and sides with an attitude. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

**Date:** Thursday, February 19

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required



**Date:** Friday, February 26

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

**Location:** Conservatory Garden Court

**FREE:** No pre-registration required

## Celebration

### ORKID FAMILY FESTIVAL

*Smithsonian Gardens*

Visitors of all ages are invited to explore the world of orchids at this year's OrKID Family Festival. This fun-filled day of free activities celebrates the exhibition, *Orchids: Interlocking Science and Beauty*. The event is a collaboration between Smithsonian Gardens, the United States Botanic Garden, the National Museum of Natural History and the North American Orchid Conservation Center. Activities include constructing a field journal, an orchid corsage and an orchid puzzle. Visitors can even pot an orchid to take home! Orchid experts from the Smithsonian and U.S. Botanic Garden will be available to answer questions and tell visitors about unique plants from their collections that will be on display. **Please note:** This program is *not* being held at the U.S. Botanic Garden Conservatory. See location listing below.

**Date:** Saturday, February 21

**Time:** 10 a.m. to 2 p.m.

**Location:** Evans Gallery at the National Museum of Natural History

**FREE:** No pre-registration required



## 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, February 21

**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](http://www.usbg.gov)





## Teacher Training

### HOW PLANTS WORK FOR MIDDLE AND HIGH SCHOOL TEACHERS

*Lee Coykendall, USBG Children's Education 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 26

**Time:** 4:30 p.m. to 7 p.m.

**Location:** Conservatory Classroom

**FREE:** Pre-registration required:

Visit [www.usbg.gov](http://www.usbg.gov)



## 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 7000-year journey of the banana from the jungles of Southeast Asia to your breakfast table. Learn about 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.

**Date:** Saturday, February 28

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required:

Visit [www.usbg.gov](http://www.usbg.gov)



*Musa velutina*

Photo by Todd Brethauer

## Lecture

### CITRUS: BOTANY, CHEMISTRY, HISTORY AND FUTURE

Todd Brethauer, USBG Science Education Volunteer

Not so long ago citrus fruits were eaten only by the very wealthy, and then only on special occasions. Now they are an important part of the healthy diet of billions of people around the world. Join Todd Brethauer as he traces the 6000-year journey of citrus out of Asia with traders, explorers and conquerors. See how the fruit has changed and how it has changed our landscape and the way we live. Explore the fascinating chemistry of oranges and lemons and how their major aroma chemicals can be so similar, yet smell so different. Learn how recent studies of the genomes of wild and cultivated citrus have expanded the tools available to breeders to help counter new fungal, bacterial and viral diseases that threaten production.

**Date:** Saturday, February 28

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



*Citrus sinensis*  
Photo by Todd Brethauer





# Upcoming Events in Early March

Mark your calendars for these programs!

## 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 3, 10, 17, 24

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)\*

\***Please note:** Registration opens on Wednesday, February 4 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 4, 11, 18, 25

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

**Location:** Conservatory Classroom

**FREE:** Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)\*

\***Please note:** Registration opens on Wednesday, February 4 at 10 a.m.



## Special Event

### U.S. BOTANIC GARDEN PRODUCTION FACILITY OPEN HOUSE

*USBG Staff and Volunteers*

**\*\*Not to be Missed!\*\*** Only once each year do we invite the public 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 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 7

**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](http://www.usbg.gov)







# 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 may 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 plants! 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:** Completion of the Adventure Sheets usually takes an individual several visits. The program is free. Schools may reserve Junior Botanist backpacks on Fridays by contacting our Children's Education Specialist Lee Coykendall, at [lcoykend@aoc.gov](mailto:lcoykend@aoc.gov).

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













# The National Fund for the United States Botanic Garden

## 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 Hands On Plant Science (HOPS) summer camp, the National Garden Internship, Landscape for Life and DC Teachers Night. Find out more about the programs we support at [www.nfusb.org](http://www.nfusb.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. Visit [www.nfusb.org/membership](http://www.nfusb.org/membership) to learn more. Contributions are tax-deductible. Membership benefits are listed below:

### Capitol Friend (\$1,000 per year)

- Invitation for you and your family to the after-hours Holiday Show preview
- Six complimentary admissions for you and your guests to the Spring Cocktails in the Garden event
- Additional membership benefits listed under Friend below

### National Friend (\$500 per year)

- Invitation for you and your family to the after-hours Holiday Show preview
- Four complimentary admissions for you and your guests to the Spring Cocktails in the Garden event
- Additional membership benefits listed under Friend below

### First Friend (\$250 per year)

- Invitation for you and your family to the after-hours Holiday Show preview
- Two complimentary admissions for you and your guest to the Spring Cocktails in the Garden event
- Additional membership benefits listed under Friend below

### Junior Friend (for First Friends under 40; \$150 per year)

- Invitation for you and your family to the after-hours Holiday Show preview
- Two complimentary admissions for you and your guest to the Spring Cocktails in the Garden event
- Additional membership benefits listed under Friend below

### Friend (\$75 per year)

- Invitation to the after-hours Holiday Show preview
- 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](http://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.

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## 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

Title	# of Participants	Fees

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