



# CALENDAR OF EVENTS

JANUARY—FEBRUARY 2014

UNITED STATES BOTANIC GARDEN

# The United States Botanic Garden

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

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

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

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

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

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

Free 45-minute highlight **tours** of the U.S. Botanic Garden Conservatory may be available on the day of your visit. Please check at the Visitor Information Desk upon your arrival. To arrange a group tour, which requires a four-week advance reservation, please call (202) 225-1116. Groups of 10 to 25 adults may reserve a free 45-minute guided tour of the Conservatory at 10:30 a.m. or 1:30 p.m. Monday through Friday.

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

## FOR MORE INFORMATION

General Information: 202-225-8333  
 Register for Programs: 202-225-1116  
 Request Tours: 202-225-1116  
 Plant Hotline: 202-226-4785  
 Volunteer Opportunities: 202-226-1047

# At a Glance

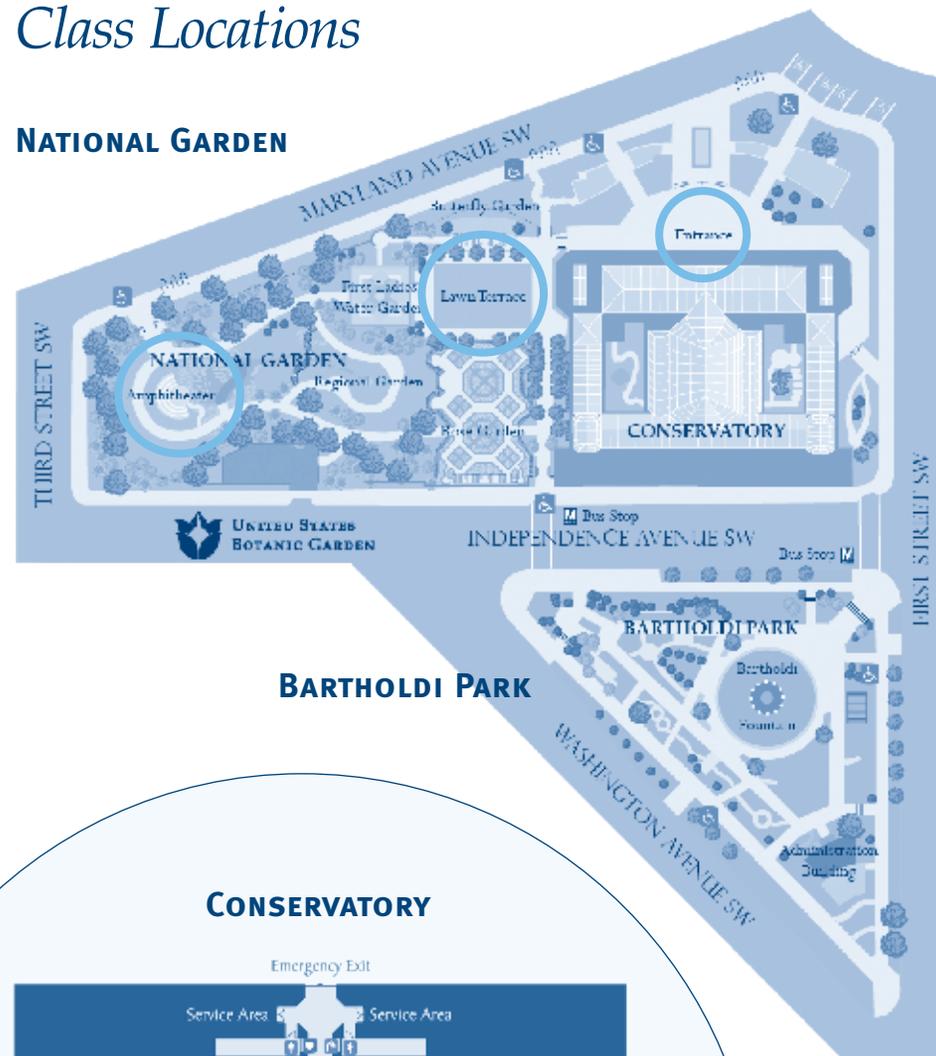
Classes are listed by starting date.

Starting Date	Time	Title	Page
<b>JANUARY</b>			
6	12:00 p.m.	Lunchtime Tour of the Conservatory	11
7	10:30 a.m.	Seedlings	11
8	10:30 a.m.	Sprouts	12
8	12:00 p.m.	Lunchtime Tour of the Conservatory	11
9	10:30 a.m.	Snugglers	12
13	12:00 p.m.	Lunchtime Tour of the Conservatory	11
14	12:00 p.m.	Medicinal and Poison Plants Tour	13
15	12:00 p.m.	Lunchtime Tour of the Conservatory	11
16	10:30 a.m.	Snugglers	12
16	12:00 p.m.	Fruits and Nuts Cooking Demonstration	13
18	10:30 a.m.	Dreadful Garden Diseases: Past and Present Lecture	14
19	2:00 p.m.	Bringing Nature Home Lecture	14
20	10:30 a.m.	Sugar: History, Botany, Production and Processing Lecture	15
20	12:00 p.m.	Lunchtime Tour of the Conservatory	11
20	2:00 p.m.	Culinary and Medicinal Plants of Africa Tour	15
22	12:00 p.m.	Lunchtime Tour of the Conservatory	11
22	12:00 p.m.	Modern Day Plant Conservation Lecture	16
23	10:30 a.m.	Snugglers	12
23	12:00 p.m.	Fruits and Nuts Cooking Demonstration	13
23	12:00 p.m.	Plant Exploration in Harmony with Conservation Lecture	16
24	12:00 p.m.	300 Years of Carolina Botany Repatriated Lecture	17
25	10:30 a.m.	Ferns: Wild Things Make a Comeback Lecture	18
27	12:00 p.m.	Lunchtime Tour of the Conservatory	11
29	12:00 p.m.	Lunchtime Tour of the Conservatory	11
30	10:30 a.m.	Snugglers	12
<b>FEBRUARY</b>			
1	9:00 a.m.	Plants and the Fibonacci Sequence Art Workshop	18
3	12:00 p.m.	Lunchtime Tour of the Conservatory	19
4	10:30 a.m.	Seedlings	19
5	10:30 a.m.	Sprouts	20
5	12:00 p.m.	Lunchtime Tour of the Conservatory	19
6	10:30 a.m.	Snugglers	20
7	7:00 p.m.	Night Adventure at the USBG	21
8	7:00 p.m.	Night Adventure at the USBG	21
9	2:00 p.m.	Before Flowers and Fruits Lecture	21
10	12:00 p.m.	Lunchtime Tour of the Conservatory	19
12	12:00 p.m.	Lunchtime Tour of the Conservatory	19
13	10:30 a.m.	Snugglers	20
13	1:00 p.m.	Victorian Bouquet Making Demonstration	22
14	12:00 p.m.	Chocolate for Your Valentine Cooking Demonstration	22
14	3:00 p.m.	Mating Call: The Dating Life of Birds and Bees Concert	22
14	6:00 p.m.	The Passionate Fact: A Storytelling Way of Giving Scientific Information 3-Day Workshop	23
16	2:00 p.m.	Artist Tour: Botanical Paintings of the Mid-Atlantic	24
17	12:00 p.m.	Lunchtime Tour of the Conservatory	19
19	12:00 p.m.	Lunchtime Tour of the Conservatory	19
20	10:30 a.m.	Snugglers	20
20	12:00 p.m.	Soup's On! Cooking Demonstration	24
22	9:00 a.m.	Gouache and Watercolor on Vellum Art Workshop	25
22	2:00 p.m.	Signs of Spring Tour	25
24	12:00 p.m.	Lunchtime Tour of the Conservatory	19
26	12:00 p.m.	Lunchtime Tour of the Conservatory	19
26	6:30 p.m.	The Pennsylvania Flora Project: History and Future Lecture	26
27	10:30 a.m.	Snugglers	20
27	12:00 p.m.	Horticultural Houdini's Tour	26

Starting Date	Time	Title	Page
<b>EARLY MARCH</b>			
1	10:30 a.m.	Orchid Symphony – First Movement: Evolution, Biogeography and Ecology Lecture	27
1	2:00 p.m.	Signs of Spring Tour	28
2	2:00 p.m.	A Symphony of Orchids Youth Workshop	28
4	10:30 a.m.	Seedlings	29
5	10:30 a.m.	Sprouts	29
6	12:00 p.m.	We Say Potatoes Cooking Demonstration	30
6	4:30 p.m.	How Plants Work Teacher Training Workshop	30
8	10:00 a.m.	U.S. Botanic Garden Production Facility Open House	31
8	1:00 p.m.	Alienweeds: Tapping the Abundance of Invasive Plants Lecture	32
11	12:00 p.m.	Medicinal and Poison Plants Tour	32
13	12:00 p.m.	We Say Potatoes Cooking Demonstration	30
14	12:00 p.m.	Sugar, Sex and Poison: Shocking Plant Secrets Caught on Camera Lecture	33
15	10:00 a.m.	Winter Tree Tour of the Capitol Grounds	33
15	2:00 p.m.	Signs of Spring Tour	28
16	2:00 p.m.	Artist Tour: Botanical Paintings of the Mid-Atlantic	34

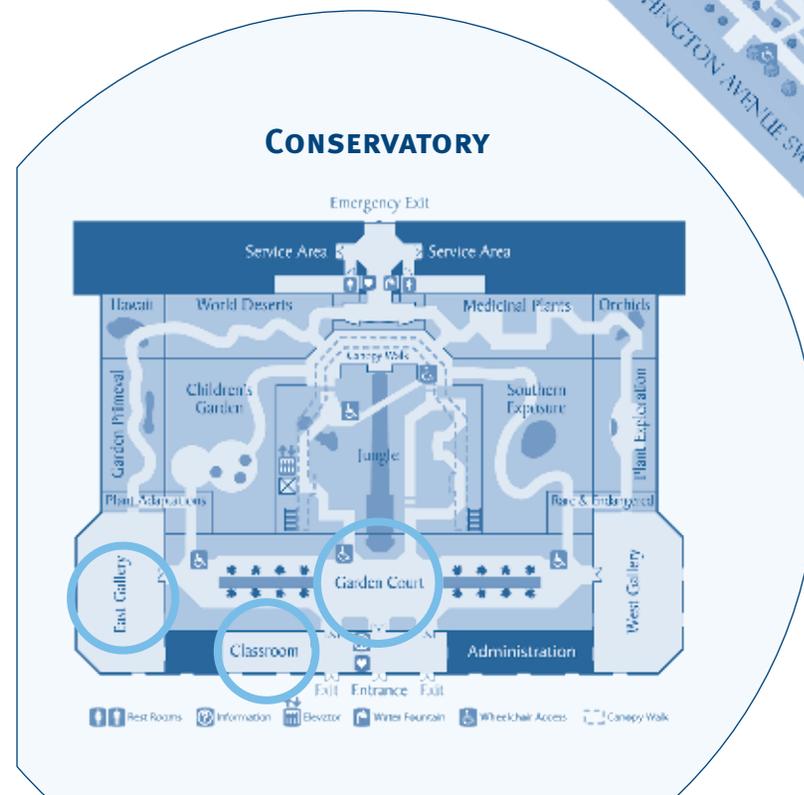
## Class Locations

### NATIONAL GARDEN



### BARTHOLDI PARK

### CONSERVATORY



## JANUARY 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6 Lunchtime Tour of the Conservatory 12:00 p.m.	7 Seedlings 10:30 a.m.	8 Sprouts 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m.	9 Snugglers 10:30 a.m.	10	11
12	13 Lunchtime Tour of the Conservatory 12:00 p.m.	14 Medicinal & Poison Plants Tour 12:00 p.m.	15 Lunchtime Tour of the Conservatory 12:00 p.m.	16 Snugglers 10:30 a.m. Fruits and Nuts Cooking Demonstration 12:00 p.m.	17	18 Dreadful Garden Diseases: Past and Present Lecture 10:30 a.m.
19 Bringing Nature Home Lecture 2:00 p.m.	20 Sugar: History, Botany, Production and Processing Lecture 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m. Culinary and Medicinal Plants of Africa Tour 2:00 p.m.	21	22 Modern Day Plant Conservation Lecture 12:00 p.m. Lunchtime Tour of the Conservatory 12:00 p.m.	23 Snugglers 10:30 a.m. Fruits and Nuts Cooking Demonstration 12:00 p.m. Plant Exploration in Harmony with Conservation Lecture 12:00 p.m.	24 300 Years of Carolina Botany Repatriated Lecture 12:00 p.m.	25 Ferns: Wild Things Make a Comeback Lecture 10:30 a.m.
26	27 Lunchtime Tour of the Conservatory 12:00 p.m.	28	29 Lunchtime Tour of the Conservatory 12:00 p.m.	30 Snugglers 10:30 a.m.	31	

## FEBRUARY 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 Plants and the Fibonacci Sequence Art Workshop 9:00 a.m.
2	3 Lunchtime Tour of the Conservatory 12:00 p.m.	4 Seedlings 10:30 a.m.	5 Sprouts 10:30 a.m. Lunchtime Tour of the Conservatory 12:00 p.m.	6 Snugglers 10:30 a.m.	7 Night Adventure at the USBG 7:00 p.m.	8 Night Adventure at the USBG 7:00 p.m.
9 Before Flowers and Fruits Lecture 2:00 p.m.	10 Lunchtime Tour of the Conservatory 12:00 p.m.	11	12 Lunchtime Tour of the Conservatory 12:00 p.m.	13 Snugglers 10:30 a.m. Victorian Bouquet Making Demonstration 1:00 p.m.	14 Chocolate for Your Valentine Cooking Demonstration 12:00 p.m. Mating Call: The Dating Life of Birds and Bees Concert 3:00 p.m. The Passionate Fact: A Storytelling Way of Giving Scientific Information 3-Day Workshop 6:00 p.m.	15
16 Artist Tour: Botanical Paintings of the Mid-Atlantic 2:00 p.m.	17 Lunchtime Tour of the Conservatory 12:00 p.m.	18	19 Lunchtime Tour of the Conservatory 12:00 p.m.	20 Snugglers 10:30 a.m. Soup's On! Cooking Demonstration 12:00 p.m.	21	22 Gouache and Watercolor on Vellum Art Workshop 9:00 a.m. Signs of Spring Tour 2:00 p.m.
23	24 Lunchtime Tour of the Conservatory 12:00 p.m.	25	26 Lunchtime Tour of the Conservatory 12:00 p.m. The Pennsylvania Flora Project: History and Future Lecture 6:30 p.m.	27 Snugglers 10:30 a.m. Horticultural Houdini's Tour 12:00 p.m.	28	

## EARLY MARCH 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 Orchid Symphony—First Movement: Evolution, Biogeography and Ecology Lecture 10:30 a.m. Signs of Spring Tour 2:00 p.m.
2 A Symphony of Orchids Youth Workshop 2:00 p.m.	3	4 Seedlings 10:30 a.m.	5 Sprouts 10:30 a.m.	6 We Say Potatoes Cooking Demonstration 12:00 p.m. How Plants Work Teacher Training Workshop 4:30 p.m.	7	8 U.S. Botanic Garden Production Facility Open House 10:00 a.m. Alienweeds: Tapping the Abundance of Invasive Plants Lecture 1:00 p.m.
9	10	11 Medicinal & Poison Plants Tour 12:00 p.m.	12	13 We Say Potatoes Cooking Demonstration 12:00 p.m.	14 Sugar, Sex and Poison: Shocking Plant Secrets Caught on Camera Lecture 12:00 p.m.	15 Winter Tree Tour of the Capitol Grounds 10:00 a.m. Signs of Spring Tour 2:00 p.m.
16 Artist Tour: Botanical Paintings of the Mid-Atlantic 2:00 p.m.	17	18	19	20	21	22

# Exhibits

Todd Brethauer

## AMERICAN BOTANICALS: MID-ATLANTIC NATIVE PLANTS

### CONSERVATORY EAST GALLERY

FEBRUARY 15 THROUGH JUNE 15

Mid-Atlantic native plants feed the biota around us, respond to the seasons and soils of our region, delight our senses and reinforce a sense of place. On display, find masterful, original botanical illustrations of some of the Mid-Atlantic's distinctive and beautiful plants that demonstrate why it is so crucial to conserve this vital part of our natural heritage.

## ORCHID SYMPHONY

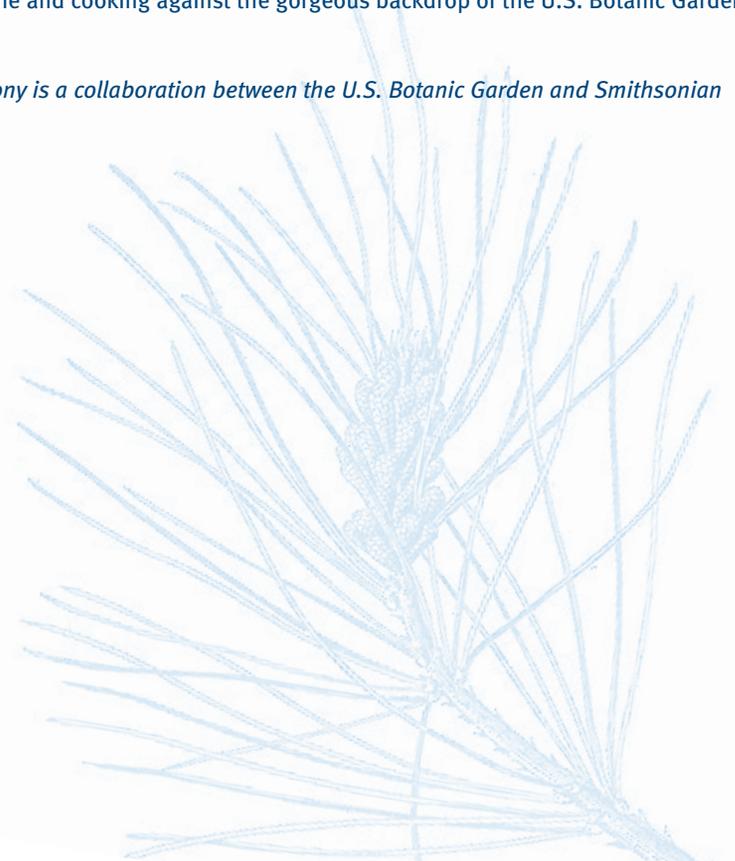
### CONSERVATORY GARDEN COURT

FEBRUARY 22 THROUGH APRIL 26

Experience the incredible elegance of an orchid symphony. The U.S. Botanic Garden will feature exuberant displays of orchids nestled among whimsical topiaries and musical fountains. Illuminated by an orchid chandelier, the Garden Court will sing the praises of beautiful orchids. The Conservatory will feature orchids from all over the world in a multitude of environments. Come see desert orchids, jungle orchids and even orchids used in medicine and cooking against the gorgeous backdrop of the U.S. Botanic Garden collections.

*Orchid Symphony is a collaboration between the U.S. Botanic Garden and Smithsonian Gardens.*

*Anguloa virginalis*



# 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 6, 13, 20, 27

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

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

Dates: Wednesdays, 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.

Dates: Tuesdays, January 7, 14, 21, 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)\*

**\*Please note:** Registration opens on Wednesday, December 4, 2013 at 10 a.m.



## CHILDREN'S PROGRAM

### SPROUTS

#### **LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST**

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

Dates: Wednesdays, January 8, 15, 22, 29

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 4, 2013 at 10 a.m.



## PARENT & CHILD PROGRAM

### SNUGGLERS

#### **USBG VOLUNTEER**

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

Date: Thursday, January 9

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)

Date: Thursday, January 16

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)



Date: Thursday, January 23

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)

Date: Thursday, January 30

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

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

#### **BETH BURROUS, BIOCHEMIST AND USBG VOLUNTEER**

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

Date: Tuesday, January 14

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

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



## COOKING DEMONSTRATION

### FRUITS & NUTS

#### **ADRIENNE COOK, GARDENING SPECIALIST AND DANIELLE COOK NAVIDI, NUTRITIONIST**

Dried fruit and nuts bring hearty and healthy flavors and textures to a myriad of winter dishes. Join the Cook Sisters to explore the world of fruits and nuts and get an idea on how to use them. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

Date: Thursday, January 16

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

Location: Conservatory Garden Court

FREE: No pre-registration required

Date: Thursday, January 23

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

Location: Conservatory Garden Court

FREE: No pre-registration required



## LECTURE

### DREADFUL GARDEN DISEASES: PAST AND PRESENT

**JIM WILLMOTT, USBG PLANT HEALTH CARE  
SPECIALIST**

Plant diseases have an ominous history of destruction, including mass starvation and decimation of cherished street and forest trees. With increasing world trade and climate change, they pose even greater threats. Come learn about emerging diseases and the latest on the malicious molds, belligerent bacteria and fearsome fungi that cause them.

Date: Saturday, January 18

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

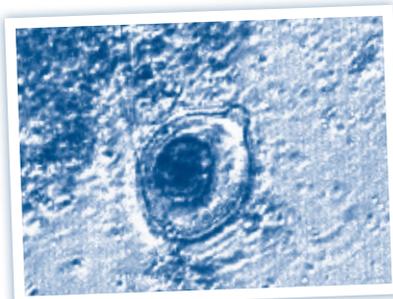
Location: Conservatory Classroom

FREE: Pre-registration required:

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



*Euphorbia amygdaloides*



The spore stage of the pathogen that caused the blight on the *Euphorbia amygdaloides*.

## LECTURE

### BRINGING NATURE HOME

**DOUGLAS W. TALLAMY, PROFESSOR, UNIVERSITY  
OF DELAWARE, DEPARTMENT OF ENTOMOLOGY AND  
WILDLIFE ECOLOGY**

Because our yards and gardens are essential parts of the terrestrial ecosystems that sustain humans and the life around us, it is essential that we keep them in working order. Douglas Tallamy will discuss the important ecological roles of the plants in our landscapes, emphasize the benefits of designing landscapes with these roles in mind and explore the consequences of failing to do so. Managing landscapes in this crowded world carries both moral and ecological responsibilities that we can no longer ignore.

Date: Sunday, January 19

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

Location: Conservatory Classroom

FREE: Pre-registration required:

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



## LECTURE

### SUGAR: HISTORY, BOTANY, PRODUCTION AND PROCESSING

**TODD BRETHAUER, USBG 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 20

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*

## 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 20

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

Location: Conservatory

Garden Court

FREE: No pre-registration required



## Plant Conservation Lecture Series!

Check out the following three lectures to hear what's new and trending in the world of plant conservation.

### PLANT CONSERVATION LECTURE SERIES

#### MODERN DAY PLANT CONSERVATION

**MICHAEL DOSMANN, CURATOR OF LIVING COLLECTIONS, THE ARNOLD ARBORETUM OF HARVARD UNIVERSITY**

The romance of plant exploration has not lost its luster since the days of E. H. Wilson and Joseph Rock—botanists continue to conduct field work in the name of discovery, horticulture and conservation. In this lecture, learn about past and present plant exploration efforts, what guided those earlier forays and what directs them now. Michael Dosmann will draw upon his own experiences collecting and documenting plants in North America and Asia.



Date: Wednesday, January 22

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

Location: Conservatory Classroom

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

### PLANT CONSERVATION LECTURE SERIES

#### PLANT EXPLORATION IN HARMONY WITH CONSERVATION, RESEARCH AND HORTICULTURE AT MONTGOMERY BOTANICAL CENTER

**CHAD HUSBY, COLLECTIONS MANAGER AND BOTANIST, MONTGOMERY BOTANICAL CENTER**

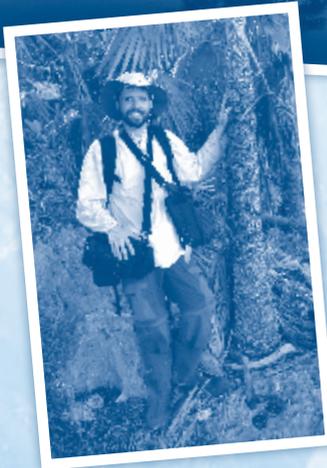
Montgomery Botanical Center (MBC) fosters an extensive program of plant exploration and introduction, focusing on palms and cycads. MBC increasingly focuses on research strategies that optimize *ex situ* conservation and improves conservation horticulture. Chad Husby will illustrate this work and how it integrates with the challenges and opportunities of the 21<sup>st</sup> century.

Date: Thursday, January 23

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

Location: Conservatory Classroom

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



### PLANT CONSERVATION LECTURE SERIES

#### Ex Situ, Ex Tempore, AND BACK IN THE GARDEN: 300 YEARS OF CAROLINA BOTANY REPATRIATED

**AMY HACKNEY BLACKWELL, PH.D., RESEARCH ASSOCIATE, SOUTH CAROLINA BOTANICAL GARDEN**

300 years ago explorers such as Mark Catesby and John Lawson roamed the Carolinas, collecting plants and sending them back to England. Through the project Botanica Caroliniana (<http://folio.furman.edu/projects/botanicacaroliniana/index.html>) Amy Hackney Blackwell and her colleagues have now digitally returned those plants to the Carolinas, where they form the basis of a centuries-old survey that yields insights into ecology, conservation, medicine, invasive species and endangered species, and the concerns of early American colonists.

Date: Friday, January 24

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

Location: Conservatory Classroom

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



## LECTURE

### FERNS: WILD THINGS MAKE A COMEBACK

**C. COLSTON BURRELL, PRINCIPAL, NATIVE LANDSCAPE DESIGN AND RESTORATION**

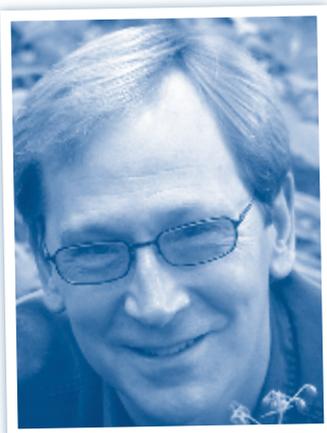
Ferns impart a cool grace to gardens that no other group of plants can match. They beguile us with just their fronds. From the filigreed lace of the lady fern, to the erect swords of the deer fern, fronds provide color, form and texture to meet the most stringent design criteria. Learn how to tame these garden treasures and discover the beauty and variety of new ferns available today. Topics to be covered include fern anatomy, life cycle, growth forms, and cultivation requirements. **Please note:** Lecture registration is limited to 20 participants. Registration will close 1 week prior to the lecture date. Lecture offered in conjunction with the Potomac Chapter Rock Garden Society.

Date: Saturday, January 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)



## 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 3, 10, 17, 24

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

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

Dates: Wednesdays, 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. Program in February is a repeat of January.

Dates: Tuesdays, February 4, 11, 18, 25

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 8 at 10 a.m.



## ART WORKSHOP

### PLANTS AND THE FIBONACCI SEQUENCE

**MARY ELLEN CARSLY, ARTIST**

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.

Date: Saturday and Sunday, February 1–2

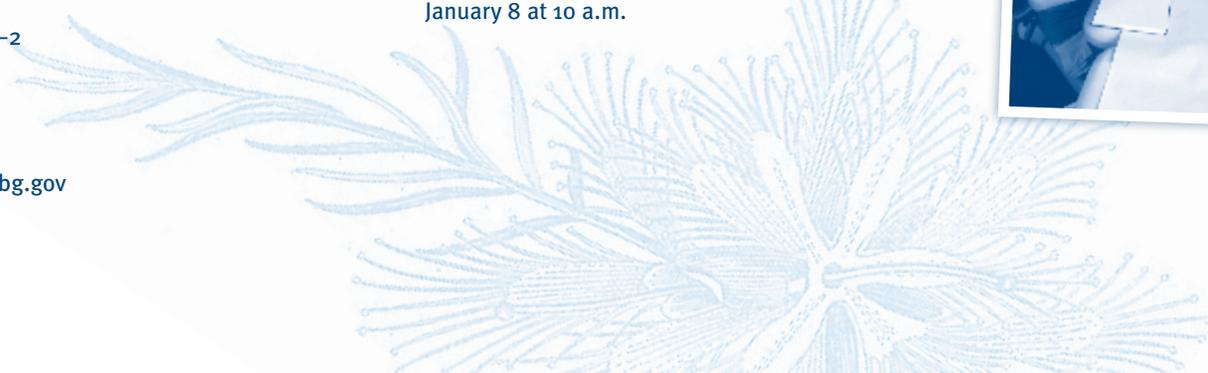
Time: 9 a.m. to 4:30 p.m.

Location: Conservatory Classroom

Friends: \$150

Non-members: \$175

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



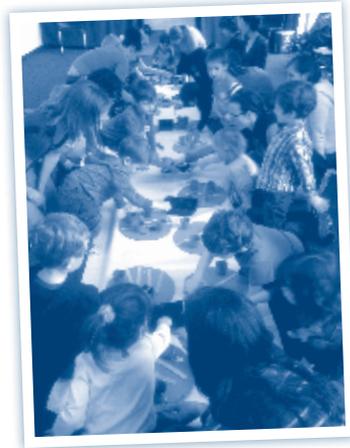
## CHILDREN'S PROGRAM

### 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 5, 12, 19, 26  
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 8 at 10 a.m.



## PARENT & CHILD PROGRAM

### SNUGGLERS

#### USBG VOLUNTEER

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

Date: Thursday, February 6  
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)

Date: Thursday, February 13  
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)

Date: Thursday, February 20  
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)

Date: Thursday, February 27  
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)



## CHILDREN'S PROGRAM

### NIGHT ADVENTURE AT THE USBG

#### LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST

Ever wonder what it's like to be at the U.S. Botanic Garden late at night after the public and gardeners have gone home? A night adventure awaits you as you venture out on a flashlight tour of the Jungle, explore night-blooming flowers and night pollinators, experience the cool of the night desert and participate in several hands-on plant science experiments. **Please note:** Participants must be between the ages of 8 and 12 and be accompanied by an adult. No adults may enroll without registered children. Parents must remain on site during the program.

Date: Friday, February 7  
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, February 8  
Time: 7 p.m. to 9:30 p.m.  
Location: Conservatory  
FREE: Pre-registration required:  
Visit [www.usbg.gov](http://www.usbg.gov)



## LECTURE

### BEFORE FLOWERS AND FRUITS

#### TODD BRETHAUER, USBG VOLUNTEER

The flowering plants that dominate our modern landscape in most parts of the world today first appeared about 125 million years ago. Beginning more than 400 million years ago, mosses and their relatives, club-mosses, ferns and gymnosperms dominated the landscape inhabited by the first animals to venture onto the land and eventually the dinosaurs. These plants still dominate in some special parts of the world. Learn what came before flowering plants, how we study the fossil record and their living descendants to understand their place in the environment, how they are used by people around the world, and how modern laboratory methods and the fossil record are being used to look back in time to understand their evolution and how to protect endangered species.

Date: Sunday, February 9  
Time: 2 p.m. to 3:30 p.m.  
Location: Conservatory Classroom  
FREE: Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



*Cibotium schiedei crozier*

Photo: Todd Brethauer

## 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. 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. She is also a local freelance writer and college essay tutor.

Date: Thursday, February 13

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

Location: Conservatory Garden Court

FREE: No pre-registration required



## DEMONSTRATION

### CHOCOLATE FOR YOUR VALENTINE

**ADRIENNE COOK, GARDENING SPECIALIST AND DANIELLE COOK NAVIDI, NUTRITIONIST**

What's more fitting for Valentine's Day than plenty of chocolate? Join the Cook Sisters for a delicious menu of dishes that incorporate chocolate.

Date: Friday, February 14

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

Location: Conservatory Garden Court

FREE: No pre-registration required



## CONCERT

### MATING CALL: THE DATING LIFE OF BIRDS AND BEES

**NANCY SCIMONE AND HER RED BIRD ENSEMBLE**

This concert program reveals the hidden mating practices of our winged and feathered friends. Along with accessible scientific commentary, vocal artist Nancy Scimone celebrates these convivial courtships with lively bee and bird-themed songs by Mercer, Gershwin, Bizet and more.

Date: Friday, February 14

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

Location: Conservatory Garden Court

FREE: No pre-registration required



## STORYTELLING WORKSHOP

### THE PASSIONATE FACT: A STORYTELLING WAY OF GIVING SCIENTIFIC INFORMATION

**SUSAN STRAUSS, PROFESSIONAL STORYTELLER**

A naturalist's life experience holds a wealth of story material. Personal experience or anecdote is the most accessible story form for the beginner storyteller and useful in a multitude of situations. Join Professional Storyteller Susan Strauss as she guides you through the creation and use of story for relaying scientific, historic and/or cultural information. This workshop is designed for scientists, interpreters, educators and resource managers.



#### DAY 1 (FRIDAY EVENING, 6 P.M. TO 8 P.M.)

In Day 1 of this workshop, participants will refine a personal anecdote for use in a presentation, while at the same time develop an understanding of the essential elements for a story well told. Participants need to bring to the workshop a personally moving experience they had in or with nature, history or culture. Their story will be put through a series of activities that will shape and transform it, making it ready for public telling. Participants also need to bring to the workshop a small body of specific scientific and/or historic information on a particular subject such as the geology of a specific area, a particular plant or animal or bio-region. This information will be worked into exercises on all three days. Also included in Day 1:

- an introduction to a variety of story forms and structures
- samples of actual and potential interpretive uses of these forms
- an introduction to voice work

#### DAY 2 (SATURDAY, ALL DAY, 9 A.M. TO 5 P.M.)

In Day 2, the basics are reinforced by learning to tell a traditional story; more specifically: myth, folk tale, fable, parable, legend or fairy tale. Engaging with the telling of a traditional story deepens the participant's understanding of the story craft as it varies in different cultures. Participants may bring a traditional story of choice to learn or choose from a selection of tales that will be available. Voice and movement work from the first day will be further developed as it applies to character voice and narrative word choices. Practice techniques for memorizing stories will be introduced.

#### DAY 3 (SUNDAY MORNING, 9 A.M. TO 1 P.M.)

In Day 3, participants transform scientific information into a "story way of giving information." A variety of story structures will be studied. Participants will go through a process for developing a story structure for their specific information. Model texts and recordings which illustrate how fact can be integrated with story will be studied and discussed. Movement, music, drawing and imaginative activities will be used to enhance and refine the story. **Please note:** Food will be provided (snacks on Friday, breakfast and lunch on Saturday and breakfast on Sunday). Registration is limited to 20 participants.

Date: Friday, Saturday and Sunday, February 14–16

Time: Workshop runs Friday night from 6 p.m. to 9 p.m.,

Saturday from 9 a.m. to 5 p.m. and Sunday from 9 a.m. to 1 p.m.

Location: Conservatory Classroom

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



#### TOUR

### ARTIST TOUR: BOTANICAL PAINTINGS OF THE MID-ATLANTIC

**EILEEN MALONE, GARDENER AND ARTIST**

From the 17<sup>th</sup> through the 19<sup>th</sup> century, botanical explorers reshaped the gardening world with their discovery and export of exotic curiosities, including many specimens from the Mid-Atlantic region featured in this exhibition. Learn more about these valued beauties and the men who discovered them as you tour the exhibition with Eileen, who will also share her approach in the creation of the Solomon's Seal portrait.

*Eileen Malone-Brown is a life-long gardener, who received her certificate in Botanical Art and Illustration from the Corcoran College of Art + Design in 2010. She is a member of the American Society of Botanical Artists and the Botanical Art Society of the National Capital Region and her works have been shown at Monticello's Jefferson Library, The Delaware Art Museum and Alexandria's Athenaeum.*

Date: Sunday, February 16  
Time: 2 p.m. to 3 p.m.  
Location: Conservatory East Gallery  
FREE: Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)

#### COOKING DEMONSTRATION

### SOUP'S ON!

**ADRIENNE COOK, GARDENING SPECIALIST AND DANIELLE COOK NAVIDI, NUTRITIONIST**

Not just a staple of winter, soups do double duty in the spring—transitioning from hearty to the lighter, cool soups of summer. Join the Cook Sisters for fresh ideas on how to liven up soups with the tasty crops of spring. **Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m.

Date: Thursday, February 20  
Time: 12 p.m. to 1:30 p.m.  
Location: Conservatory Garden Court  
FREE: No pre-registration required



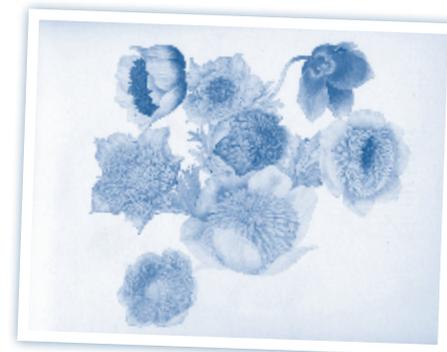
#### ART WORKSHOP

### GOUACHE AND WATERCOLOR ON VELLUM

**JEAN BRINTON-JAECKS, ARTIST**

Since antiquity the beautiful grain and luminesce quality of vellum (animal skin) has been a preferred support for artists. The USBG *Orchid Symphony* exhibit, flowers, insects, shells and pods will be the subject matter for this watercolor and gouache workshop. Fundamental techniques in rendering objects in watercolor and gouache and basic techniques in painting on several types of vellum will be demonstrated. The works of Garzoni, Durer and Redoute will be explored. **Please note:** A materials list can be found with the online listing. A 6 x 8 botanical finish cream calfskin sheet as well as small pieces of vellum for experimentation will be provided during the course. Please bring a lunch.

Date: Saturday and Sunday, February 22–23  
Time: 9 a.m. to 4:30 p.m.  
Location: Conservatory Classroom  
Friends: \$175  
Non-members: \$200  
Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



#### TOUR

### SIGNS OF SPRING

**EMILY PORTER, USBG PROJECT BUDBURST COORDINATOR**

Are you ready to “spring forward?” The plants in the National Garden are! Join Emily Porter to explore the first signs of spring in the National Garden. During this outdoor tour, you will learn to identify a variety of common native plants and discover the important clues that plants reveal about the life cycles of their surroundings. Your observations during the tour will contribute to scientific research on local plants and connect you to Project BudBurst, a national network of citizen scientists just like you. **Please note:** This tour is held outdoors. We suggest bringing sunscreen, protective clothing and water. The tour is canceled if it rains or snows.

Date: Saturday, February 22  
Time: 2 p.m. to 3 p.m.  
Location: Tour meets in the lobby of the Conservatory  
FREE: No pre-registration required



**Project BudBurst**  
Timing is everything!

## LECTURE

### THE PENNSYLVANIA FLORA PROJECT: HISTORY AND FUTURE OF A STATE FLORA

**TIMOTHY A. BLOCK, PH.D., THE JOHN J. WILLAMAN CHAIR AND DIRECTOR OF BOTANY, MORRIS ARBORETUM**

This program explores the 80-year history of one of the earliest state flora projects and its progress into the digital age and beyond. We'll discuss the ongoing challenges of tracking plant species occurrences through time and space given the dynamic nature of our environment. We'll also discuss the need for collaboration among public gardens, academic institutions, conservation organizations and other stakeholders in such projects.

Date: Wednesday, February 26

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

Location: Conservatory Classroom

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

## TOUR

### HORTICULTURAL HOUDINIS: THE MAGIC BEHIND THE USBG GARDENS

**JIM KAUFMANN, USBG HORTICULTURE MANAGER**

Ever wondered how the U.S. Botanic Garden maintains such exquisite gardens? What magic is performed to keep everything in beautiful bloom and tip-top shape? Then join Jim Kaufmann on a special tour to get a peek behind the horticultural curtain. From exterior gardens to the Conservatory micro-climates and specialized collections, come discover the many talents that make the USBG such an exceptional, national horticultural treasure.

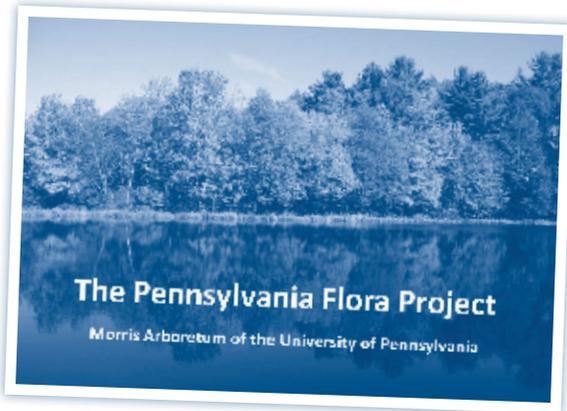
Date: Thursday, February 27

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

Location: Tour meets in the Garden Court of the USBG Conservatory

FREE: Pre-registration required:

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



# Upcoming Events in Early March

Mark your calendars for these programs in Early March!

## LECTURE

### ORCHID SYMPHONY—FIRST MOVEMENT: EVOLUTION, BIOGEOGRAPHY AND ECOLOGY

**TODD BRETHAUER, USBG VOLUNTEER**

This informative lecture will cover the evolution, biogeography and ecology of orchids in conjunction with the USBG *Orchid Symphony* exhibition. Orchids form one of the largest plant families dating back to the Age of Dinosaurs. They are remarkable for the beauty and the diversity of their blooms, the range of environments that they occupy and their unique relationships with their pollinating animals. Learn about how modern research methods are being used to better understand these plants and conserve them.

Date: Saturday, March 1

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

Location: Conservatory Classroom

FREE: Pre-registration required:

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



*Anguloa virginalis*



*Angraecum comorense* 'Gwen Copley'

Photo: Todd Brethauer

Photo: Todd Brethauer

## TOUR

### SIGNS OF SPRING

**EMILY PORTER, USBG PROJECT BUDBURST COORDINATOR**

Are you ready to “spring forward?” The plants in the National Garden are! Join Emily Porter to explore the first signs of spring in the National Garden. During this outdoor tour, you will learn to identify a variety of common native plants and discover the important clues that plants reveal about the life cycles of their surroundings. Your observations during the tour will contribute to scientific research on local plants and connect you to Project BudBurst, a national network of citizen scientists just like you. **Please note:** This tour is held outdoors. We suggest bringing sunscreen, protective clothing and water. The tour is canceled if it rains or snows.



Date: Saturday, March 1

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

Location: Tour meets in the lobby of the Conservatory

FREE: No pre-registration required

Date: Saturday, March 15

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

Location: Tour meets in the lobby of the Conservatory

FREE: No pre-registration required

## CHILDREN'S PROGRAM

### A SYMPHONY OF ORCHIDS WORKSHOP FOR YOUTH

**LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST**

Orchids enchant both artists and scientists. Join us for a hands-on workshop during which students will dissect orchids, learn of their many mysteries and then, using multiple mediums, will create art inspired by our *Orchid Symphony* exhibit. **Please note:** This workshop is intended for students ages 7 to 14. Accompanying adults should be on-site for the duration of the workshop.

Date: Sunday, March 2

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

Location: Conservatory Classroom

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



## CHILDREN'S PROGRAM

### SEEDLINGS

**LEE COYKENDALL, USBG CHILDREN'S EDUCATION SPECIALIST**

Come learn just how amazing plants really are during our Seedlings class (ages 6–10). Each week will be a mix of hands-on investigations, planting projects and science-based activities. **Please note:** Students must be at least 6 years of age and accompanied by an adult.

Dates: Tuesdays, March 4, 11, 18, 25

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 5 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 5, 12, 19, 26

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 5 at 10 a.m.



## COOKING DEMONSTRATION

### WE SAY POTATOES

**ADRIENNE COOK, GARDENING SPECIALIST AND DANIELLE COOK NAVIDI, NUTRITIONIST**

Join the Cook Sisters to explore the many varieties of potatoes and what each is best for and, of course, a taste of different ways of cooking them up. Whether it's sweet or savory you prefer, the Cook Sisters will have new ideas on what to do with one of nature's staples.

**Please note:** This program will be offered at 12 p.m. and repeated at 12:45 p.m. on each day.

Date: Thursday, March 6  
Time: 12 p.m. to 1:30 p.m.  
Location: Conservatory Garden Court  
FREE: No pre-registration required

Date: Thursday, March 13  
Time: 12 p.m. to 1:30 p.m.  
Location: Conservatory Garden Court  
FREE: No pre-registration required



## WORKSHOP

### HOW PLANTS WORK TEACHER TRAINING

**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 at the same time you get to take in our *Orchid Symphony* exhibit.

Date: Thursday, March 6  
Time: 4:30 p.m. to 7 p.m.  
Location: Conservatory Classroom  
FREE: Pre-registration required: Visit [www.usbg.gov](http://www.usbg.gov)



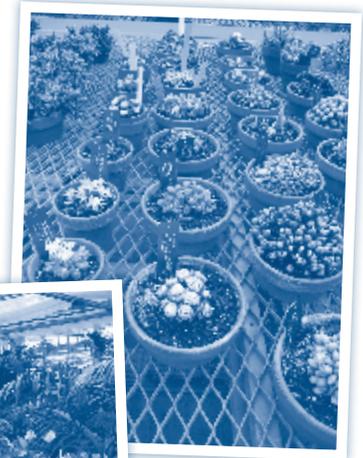
## SPECIAL EVENT

### 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 8  
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)



## LECTURE

### ALIENWEEDS: TAPPING THE ABUNDANCE OF INVASIVE PLANTS

**PATTERSON CLARK, ARTIST AND WRITER**

Habitat restoration often begins with the removal of exotic invasive vegetation, which can yield an abundance of material: paper and fabric fibers, pigments, lumber, chemicals, fuel and food. Patterson Clark will document the processes he uses to turn local invasive weeds into inks, printing blocks and sheets of paper, which reunite at the letterpress to yield prints. Raw and refined materials will be available for a hands-on display.

Date: Saturday, March 8

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

Location: Conservatory Classroom

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



## TOUR

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

**BETH BURROUS, BIOCHEMIST AND USBG VOLUNTEER**

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

Date: Tuesday, March 11

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

Location: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required



## LECTURE

### SUGAR, SEX AND POISON: SHOCKING PLANT SECRETS CAUGHT ON CAMERA

**BILL CULLINA, EXECUTIVE DIRECTOR, COASTAL MAINE BOTANICAL GARDENS**

As we all know, plants are at the base of both the human and non-human food chain. Everything eats them directly or indirectly, which may or may not be a good thing as far as plants are concerned. Because they do not move around, it is easy to forget that plants are not helpless. They have evolved an incredible arsenal of chemicals, camouflage, spines, hairs and waxes to discourage herbivores. They spend a huge amount of their energy on pollen, nectar, edible fruits and sugary root exudates designed to attract and nourish animals, insects, fungi and bacteria so they can perform services such as pollination, seed dispersal, defense and nutrient acquisition. It is a carefully balanced natural economy and community based on the products of photosynthesis that is amazing in its complexity and efficiency. In this talk, Bill Cullina will show how this world of pollen, poisons, pigments, pheromones, sugars and sex translates to sound organic practices that can benefit us all.

Date: Friday, March 14

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

Location: Conservatory Classroom

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

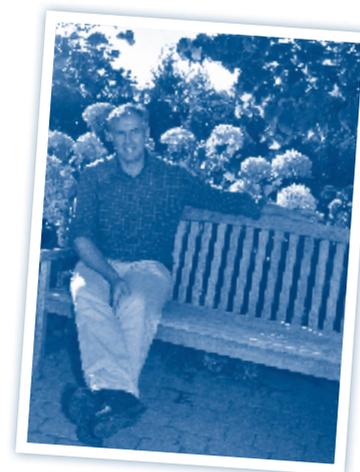


Photo: Amity Beane

## 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. We suggest bringing sunscreen, protective clothing and water. The tour is canceled if it rains or snows.

Date: Saturday, March 15

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)



## TOUR

### ARTIST TOUR: BOTANICAL PAINTINGS OF THE MID-ATLANTIC

#### KANDY PHILLIPS, ARTIST

Artists have been intrigued with insects for centuries. We see the painted insects in all their life stages in detailed floral still life paintings, or as stand-alone studies depicting metamorphosis. Join artist Kandy Phillips as she describes her experiences raising the butterflies and moths she paints, and our love/hate relationship with the insect world.



*Kandy Vermeer Phillips is a volunteer in the Department of Entomology at the National Museum of Natural History where she curates moths. Her entomology illustrations are included in many scientific publications and her botanical illuminations are a part of the permanent collection of The Hunt Institute for Botanical Documentation, Pittsburgh, Pennsylvania.*

Date: Sunday, March 16

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

Location: Conservatory East Gallery

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

# USBG Programs on Your Schedule

## GARDEN TOURS ON YOUR MOBILE PHONE

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

#### HOW THE TOUR WORKS:

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

#### CONSERVATORY

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

#### NATIONAL GARDEN

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

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

Normal fees apply to your call.



# Certificate in Botanical Art + Illustration

## **CERTIFICATE PROGRAM: 10 CREDITS OF REQUIRED COURSES AND 5 CREDITS OF ELECTIVE COURSES (15.0 CREDITS TOTAL)**

The Corcoran College of Art + Design, in partnership with the U.S. Botanic Garden, is proud to offer a certificate in botanical art and illustration. This program provides an in-depth focus on the traditions, techniques and history of botanical art and illustration. Students have the opportunity to study contemporary concepts and materials, and to integrate this knowledge into the well-established and highly regarded field of botanical art and illustration.

Beginning foundation courses emphasize the accurate and detailed depiction of botanical forms. This group of electives, including watercolor, oil painting, clay and photography, will broaden each student's experience and knowledge. Courses are taught at both the Corcoran's Georgetown and Downtown campuses as well as at the United States Botanic Garden.

### **SEVEN (7) REQUIRED COURSES FOR A TOTAL OF 10.0 CREDITS:**

BG2200	Botany for Illustrators	(1 credit)
DR1400	Introduction to Botanical Drawing	(1.5 credits)
DR1000-level	Any drawing course	(1.5 credits)
DR1260	Color Theory	(1.5 credits)
DR2400	Intermediate Botanical Drawing	(1.5 credits)
PT1350	Introduction to Botanical Painting	(1.5 credits)
PT2400	Intermediate Botanical Painting	(1.5 credits)

### **A MAXIMUM OF 10 ELECTIVE COURSES FOR A TOTAL OF 5.0 CREDITS MAY BE CHOSEN FROM THE FOLLOWING:**

DR160x/DR360x	Special Topics in Botanical Illustration
PT160x/PT360x	Special Topics in Botanical Illustration Any 1000-level or above "BG" course

If you are interested in taking a class offered at the USBG for credit toward the Certificate in Botanical Art and Illustration, please register with the Corcoran College of Art + Design at 202-639-1820 or [www.corcoran.edu/ce](http://www.corcoran.edu/ce). The USBG will accept only noncredit registrations.



### WHAT IS THE NATIONAL FUND?

The National Fund for the United States Botanic Garden was established by Public Law 100-458 to fund and build the National Garden. The National Fund now supports the educational activities of the USBG, including the National Garden Internship, an annual program that promotes "green" gardening practices through education and outreach.

Find out more at [www.nfusbg.org](http://www.nfusbg.org).

### PARTNERS IN EDUCATION: THE USBG AND THE NATIONAL FUND

The U.S. Botanic Garden and the National Fund for the United States Botanic Garden jointly sponsor our public programs. Registration fees for programs are administered by the National Fund for the USBG. These fees allow us to bring you a range of educational programs, in addition to outstanding instructors and lecturers. To ensure that we may adequately plan for your attendance, please register in advance for programs. Programs with inadequate registration may be canceled.

## Become a Friend of the Garden

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

#### CAPITOL FRIEND (\$1,000 PER YEAR)

- Five complimentary guest admissions to the Spring and Holiday receptions
- All membership benefits listed below

#### NATIONAL FRIEND (\$500 PER YEAR)

- Three complimentary guest admissions to the Spring and Holiday receptions
- All membership benefits listed below

#### FIRST FRIEND (\$250 PER YEAR)

- One complimentary guest admission to the Spring and Holiday receptions
- All membership benefits listed below

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

- One complimentary guest admission to the Spring and Holiday receptions
- Invitation to an event coordinated by the Junior Committee (for Junior Friends only)

#### FRIEND (\$75 PER YEAR)

- Invitation to the member-only Holiday reception
- Discounted registration fees for educational programs sponsored by the USBG
- Invitation to the Harvest Party
- 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.

### 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
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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