



UNITED STATES BOTANIC GARDEN

Calendar of Events

JUNE - AUGUST 2016



The United States Botanic Garden

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

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

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

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

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

Parking is not available at the U.S. Botanic Garden on weekdays. It is accessible by **public transportation**. The Federal Center SW Station on the Orange, Blue and Silver Lines of Metrorail is at Third and D Streets SW, four blocks from the USBG. Metrobuses 32, 34 and 36 stop at Independence Avenue and First Street SW, between the Conservatory and Bartholdi Park. The DC Circulator Bus (National Mall route) stops across the street from the Conservatory on 3rd Street.

Free 45-minute highlight **tours** of the U.S. Botanic Garden Conservatory may be available on the day of your visit. Groups of 10 to 25 adults may reserve a tour of the Conservatory Monday through Friday by calling (202) 226-2055 at least four weeks in advance.

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

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

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

Register for Programs: 202-225-1116

Request Tours: 202-226-2055

Plant Hotline: 202-226-4785

Volunteer Opportunities: 202-226-1047

Media Inquiries: 202-226-4145

National Fund for the USBG: 202-225-1281 (or see pg. 51)

cover image: *Echinacea* sp. and monarch butterfly

AT A GLANCE

Programs are listed by starting date.

DATE	TIME	TITLE	PAGE
JUNE			
1	12:00 p.m.	Lunchtime Tour of the Conservatory	12
2	12:00 p.m.	Cooking Demonstration: Summer Sweets	12
2	12:15 p.m.	Tour: Nature in Motion	13
2	12:50 p.m.	Cooking Demonstration: Summer Sweets	12
2	5:00 p.m.	Concert: American Roots Music: Bob Margolin	14
3	12:00 p.m.	Lecture: Hawaii: A Botanical Paradise in the Middle of the Sea	15
3	12:00 p.m.	Lunchtime Tour of the Conservatory	12
4	10:30 a.m.	Workshop: Horticultural Therapy	15
4	10:30 a.m.	Fitness Event: Yoga Gathering	16
5	1:30 p.m.	Lecture: Copper Flowers	16
6	12:00 p.m.	Lunchtime Tour of the Conservatory	12
7	2:00 p.m.	Tour: An Afternoon in the Garden	17
8	12:00 p.m.	Lunchtime Tour of the Conservatory	12
9	12:00 p.m.	Tour: Stroll through the National Garden	17
10	12:00 p.m.	Lecture: Milkweeds and Orchids: Survival of the Most Efficient	18
10	12:00 p.m.	Lunchtime Tour of the Conservatory	12
11	10:00 a.m.	Festival: Celebrating Flourish!	19
11	10:30 a.m.	Fitness Event: Yoga Gathering	16
13	12:00 p.m.	Lunchtime Tour of the Conservatory	12
14	10:30 a.m.	Tour: Perim-a-Tour of the National Garden	19
14	12:00 p.m.	Tour: Medicinal and Poisonous Plants	20
14	2:00 p.m.	Tour: An Afternoon in the Garden	17
15	12:00 p.m.	Lunchtime Tour of the Conservatory	12
16	10:30 a.m.	Tour: Flourish: An Overview	20
16	12:00 p.m.	Tour: Stroll through the National Garden	17
16	5:00 p.m.	Concert: American Roots Music: Dave Chappell	14
17	12:00 p.m.	Lunchtime Tour of the Conservatory	12
17	6:30 p.m.	Special Event: Marvelous Mead	21
18	9:00 a.m.	Workshop: The Art and Botany of Orchid Flowers	22

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AT A GLANCE

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18	10:30 a.m.	Fitness Event: Yoga Gathering	16
20	12:00 p.m.	Lunchtime Tour of the Conservatory	12
21	2:00 p.m.	Tour: An Afternoon in the Garden	17
22	12:00 p.m.	Lunchtime Tour of the Conservatory	12
23	12:00 p.m.	Tour: Stroll through the National Garden	17
23	1:00 p.m.	Demonstration: Creating Beautiful Containers	23
24	10:30 a.m.	Special Event: Pollinator Party!	23
24	12:00 p.m.	Lunchtime Tour of the Conservatory	12
24	12:00 p.m.	Special Event: Pollinator Party!	23
24	2:00 p.m.	Tour: Perfect Plant Hosts for Pollinators	24
25	10:30 a.m.	Fitness Event: Yoga Gathering	16
25	11:30 a.m.	Concert: Songs and Dances of the Pua (Flowers) of Hawai'i	24
27	12:00 p.m.	Lunchtime Tour of the Conservatory	12
28	2:00 p.m.	Tour: An Afternoon in the Garden	17
29	12:00 p.m.	Lunchtime Tour of the Conservatory	12
30	12:00 p.m.	Cooking Demonstration: Summer Sweets	12
30	12:00 p.m.	Tour: Stroll through the National Garden	17
30	12:50 p.m.	Cooking Demonstration: Summer Sweets	12

JULY

1	12:00 p.m.	Lunchtime Tour of the Conservatory	25
5	12:00 p.m.	Tour: Medicinal and Poisonous Plants	25
5	2:00 p.m.	Tour: An Afternoon in the Garden	25
6	12:00 p.m.	Lunchtime Tour of the Conservatory	25
7	12:00 p.m.	Cooking Demonstration: Totally Tomatoes	26
7	12:00 p.m.	Tour: Stroll through the National Garden	26
7	12:50 p.m.	Cooking Demonstration: Totally Tomatoes	26
7	5:00 p.m.	Concert: American Roots Music: Jarekus Singleton	27
8	12:00 p.m.	Lunchtime Tour of the Conservatory	25
9	10:30 a.m.	Fitness Event: Yoga Gathering	28
9	1:00 p.m.	Special Event: Meet the Artists	28
11	12:00 p.m.	Lunchtime Tour of the Conservatory	25
12	2:00 p.m.	Tour: An Afternoon in the Garden	25
13	12:00 p.m.	Lunchtime Tour of the Conservatory	25
14	10:30 a.m.	Tour: Flourish: An Overview	29

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14	12:00 p.m.	Tour: Stroll through the National Garden	26
15	12:00 p.m.	Lecture: Horticultural Therapy in Healthcare and Beyond	29
15	12:00 p.m.	Lunchtime Tour of the Conservatory	25
16	10:30 a.m.	Fitness Event: Yoga Gathering	28
16	10:30 a.m.	Lecture: Exploring and Photographing the Florida Everglades	30
17	1:30 p.m.	Children's Music Program: Rainforest Air	31
17	3:15 p.m.	Children's Music Program: Rainforest Air	31
18	12:00 p.m.	Lunchtime Tour of the Conservatory	25
19	2:00 p.m.	Tour: An Afternoon in the Garden	25
20	10:30 a.m.	Tour: Explore with the Executive Director	31
20	12:00 p.m.	Lunchtime Tour of the Conservatory	25
21	11:00 a.m.	Tour: Travel the Tropics	32
21	5:00 p.m.	Concert: American Roots Music: Fast Eddie and the Slowpokes	27
22	12:00 p.m.	Lecture: How Does Nature Impact Human Health?	32
22	12:00 p.m.	Lunchtime Tour of the Conservatory	25
23	10:30 a.m.	Fitness Event: Yoga Gathering	28
25	12:00 p.m.	Lunchtime Tour of the Conservatory	25
26	2:00 p.m.	Tour: An Afternoon in the Garden	25
27	12:00 p.m.	Lunchtime Tour of the Conservatory	25
28	12:00 p.m.	Cooking Demonstration: Totally Tomatoes	26
28	12:00 p.m.	Tour: Stroll through the National Garden	26
28	12:50 p.m.	Cooking Demonstration: Totally Tomatoes	26
29	12:00 p.m.	Lunchtime Tour of the Conservatory	25
29	12:00 p.m.	Special Event: Discover the Mediterranean!	33
30	10:30 a.m.	Fitness Event: Yoga Gathering	28
30	10:30 a.m.	Lecture: Mints: Their Botany, Chemistry and Uses	34
30	2:00 p.m.	Workshop: Horticultural Therapy in Action!	34

AUGUST

1	12:00 p.m.	Lunchtime Tour of the Conservatory	35
2	2:00 p.m.	Tour: An Afternoon in the Garden	35
3	12:00 p.m.	Lunchtime Tour of the Conservatory	35
4	12:00 p.m.	Cooking Demonstration: Mediterranean Harvest	35

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AT A GLANCE

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4	12:50 p.m.	Cooking Demonstration: Mediterranean Harvest	35
4	5:00 p.m.	Concert: American Roots Music: The Crowdaddies	36
5	12:00 p.m.	Lunchtime Tour of the Conservatory	35
6	10:30 a.m.	Workshop: Canning with Honey and Maple	37
6	10:30 a.m.	Fitness Event: Yoga Gathering	37
6	1:30 p.m.	Workshop: An Introduction to Preserving Beets	38
8	12:00 p.m.	Lunchtime Tour of the Conservatory	35
9	2:00 p.m.	Tour: An Afternoon in the Garden	35
10	12:00 p.m.	Lunchtime Tour of the Conservatory	35
12	12:00 p.m.	Lunchtime Tour of the Conservatory	35
13	10:30 a.m.	Fitness Event: Yoga Gathering	37
13	10:30 a.m.	Workshop: Principles of Therapeutic Garden Design	38
14	2:00 p.m.	Lecture: Children and Nature	39
15	12:00 p.m.	Lunchtime Tour of the Conservatory	35
16	2:00 p.m.	Tour: An Afternoon in the Garden	35
17	10:30 a.m.	Tour: Flourish: An Overview	39
17	12:00 p.m.	Lunchtime Tour of the Conservatory	35
18	11:00 a.m.	Tour: Travel the Tropics	40
18	12:00 p.m.	Tour: Celebrating 10 Years of Trees in the National Garden	40
18	5:00 p.m.	Concert: American Roots Music: Vintage #18	36
19	12:00 p.m.	Lunchtime Tour of the Conservatory	35
20	10:30 a.m.	Fitness Event: Yoga Gathering	37
20	2:00 p.m.	Demonstration: Making Chocolate: From Bean to Bar	41
20	3:00 p.m.	Demonstration: Making Chocolate: From Bean to Bar	41
22	12:00 p.m.	Lunchtime Tour of the Conservatory	35
23	2:00 p.m.	Tour: An Afternoon in the Garden	35
24	10:30 a.m.	Tour: Backstage Pass: The U.S. Botanic Garden Production Facility	41
24	12:00 p.m.	Lunchtime Tour of the Conservatory	35
25	12:00 p.m.	Cooking Demonstration: Mediterranean Harvest	35
25	12:00 p.m.	Tour: Celebrating 10 Years of Trees in the National Garden	40
25	12:50 p.m.	Cooking Demonstration: Mediterranean Harvest	35
26	12:00 p.m.	Lunchtime Tour of the Conservatory	35
27	10:30 a.m.	Fitness Event: Yoga Gathering	37
27	10:30 a.m.	Lecture: The Sinister Beauty of Carnivorous Plants	42
27	2:00 p.m.	Lecture: Finding New Species in the Nation's Capital	42

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28	1:30 p.m.	Workshop: Make Your Own Tea	43
28	3:30 p.m.	Workshop: Make Your Own Tea	43
29	12:00 p.m.	Lunchtime Tour of the Conservatory	35
30	2:00 p.m.	Tour: An Afternoon in the Garden	35
31	12:00 p.m.	Lunchtime Tour of the Conservatory	35

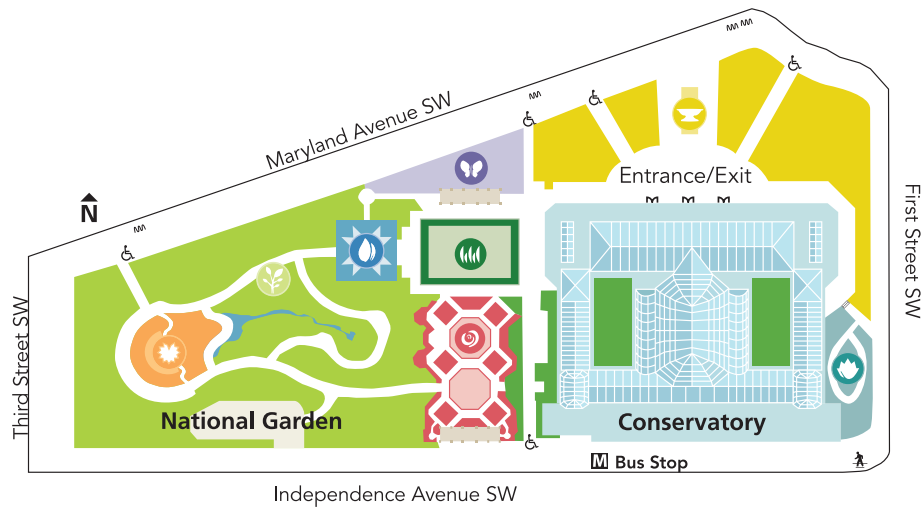
EARLY SEPTEMBER

6	10:30 a.m.	Children's Program: Seedlings	44
7	10:30 a.m.	Children's Program: Sprouts	44
7	1:30 p.m.	Children's Program: Sprouts	44
7	4:30 p.m.	Teacher Training: How Plants Work	45
8	10:30 a.m.	Parent & Child Program: Snugglers	45
8	3:00 p.m.	Concert: American Roots Music: The Brummy Brothers	46
9	12:00 p.m.	Lecture: All the Presidents' Gardens	46
10	10:30 a.m.	Lecture: Pome Fruit: Apples, Pears & Quince	47
10	1:00 p.m.	Special Event: Meet the Artists	47
15	6:00 p.m.	Special Event: 10th Anniversary National Garden Gala	48












Echinacea spp.




U.S. Botanic Garden



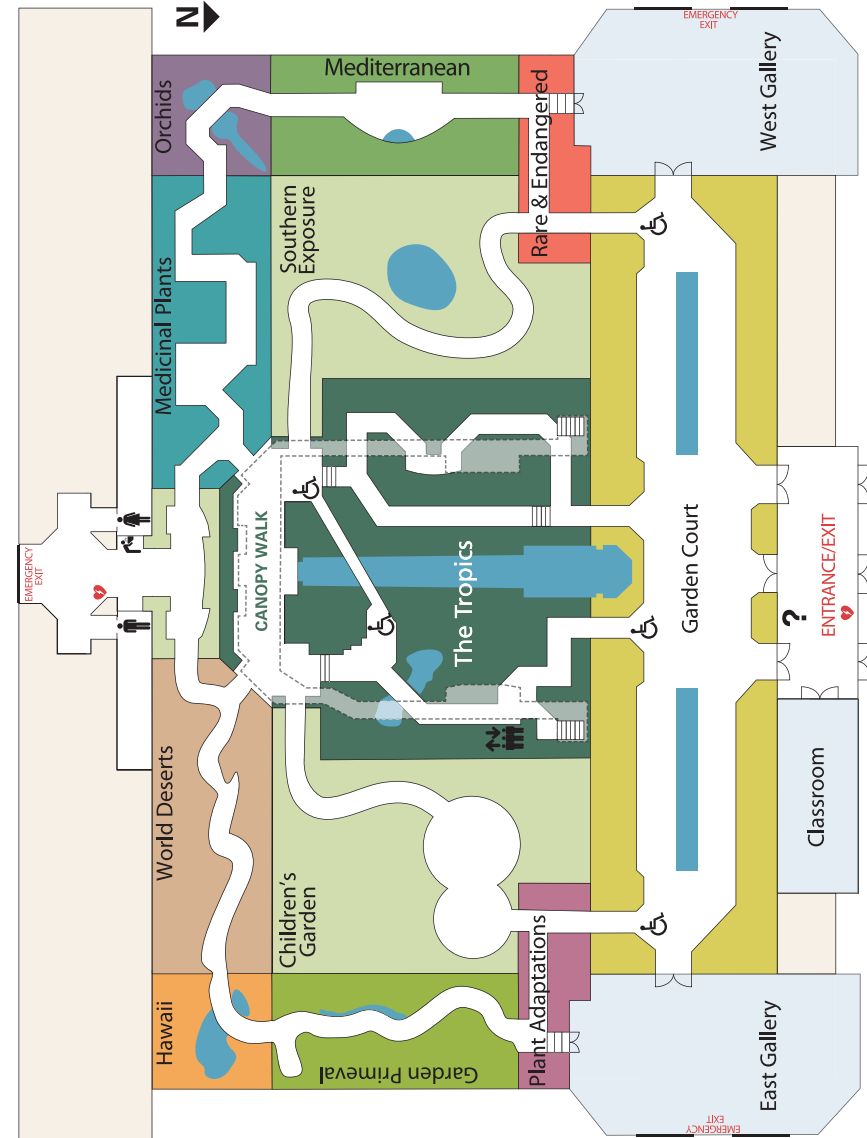
Independence Avenue SW









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

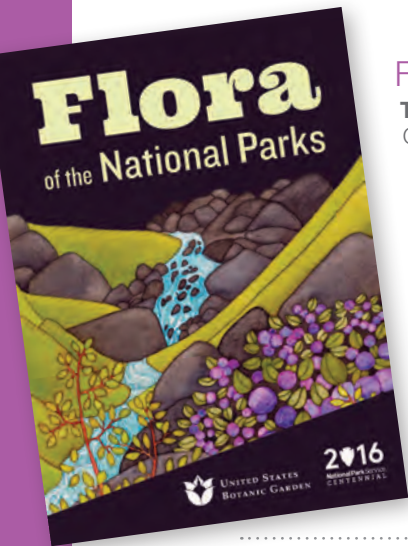
-  Accessible Route
-  Bicycle Parking
-  Pedestrian Crosswalk

Conservatory



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

EXHIBITS



Flora of the National Parks

THROUGH OCTOBER 2
CONSERVATORY WEST GALLERY

In celebration of the 100th anniversary of the National Park Service, this art exhibit showcases some of the plant species and communities found throughout the more than 400 national park sites. From giant redwoods and aspen forests to endangered Virginia spiraea and water lilies, the national parks contain a diverse representation of the North American flora.

Illustrations and photographs in this exhibit take you on a tour of the beauty and importance of the American flora.

Flourish: Inside and Out

THROUGH OCTOBER 2
CONSERVATORY TERRACE
& EAST GALLERY

From a walk in the woods to strolling through a park, and from gardening at home to visiting a public garden, therapeutic horticulture, nature therapy, and accessible gardening connect people to nature and themselves. Come learn how nature can improve human health and wellbeing. Demonstrated through accessible gardens, adaptive tools, engaging programs, and vignettes showcasing the intersection of humans and nature, a visit to the Garden will highlight how people flourish through interactions with plants. This exhibit was developed with consultation from the Chicago Botanic Garden's Buehler Enabling Garden and will excite and motivate visitors to find their place through nature!



CELEBRATE THE 10TH ANNIVERSARY OF THE NATIONAL GARDEN

Join in celebrating the 10th anniversary of the National Garden this summer and fall at the USBG. A natural extension of the U.S. Botanic Garden, the three-acre National Garden highlights the amazing diversity of American plants through the Mid-Atlantic Regional Garden, Rose Garden, and Butterfly Garden. Conceived as an outdoor laboratory for gardening in harmony with natural ecosystems, the National Garden opened in fall 2006.

Programs, lectures, and tours will highlight the National Garden, including a daylong celebration on September 17, 2016. Learn more about native plants, roses, pollinators, and wetlands and how you can incorporate gardens and gardening in your life.

Explore the National Garden through historic photos and videos, and find associated programming, at www.USBG.gov/NationalGarden10

Look for this icon



throughout the calendar of events to find activities that celebrate the 10th Anniversary of the National Garden.



PROGRAMS

Programs are listed by start date.

TOUR

Lunchtime Tour of the Conservatory

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.



DATES: Mondays, June 6, 13, 20, 27
Wednesdays, June 1, 8, 15, 22, 29
Fridays, June 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

DEMONSTRATION

Summer Sweets

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



The dulcet flavors of blueberries and melon naturally go well together. These two summer fruits are the stars of this cooking class with the Cook Sisters. *Please note:* The 12:50 p.m. program is a repeat of the 12 p.m. program.

DATES: Thursdays, June 2 and 30

TIME: 12 p.m. to 12:45 p.m. and
12:50 p.m. to 1:30 p.m.

LOCATION: Conservatory Garden Court

FREE: No pre-registration required

TOUR

Nature in Motion

Alexandra Torres, USBG Education Specialist, and
Claire Alrich, Staff, National Fund for the U.S. Botanic Garden

Taking time to enjoy nature has been shown to reduce stress, increase productivity, and improve overall wellness. Join us on a guided nature walk of the USBG outdoor gardens that explores our relationship with plants and the natural world. Throughout this tour we will intermittently stop to connect with our bodies through guided stretching and calming exercises. Themes will vary by class. *Please note:* This tour is held outdoors. The tour is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/ Code Red weather alert).

DATE: Thursday, June 2

TIME: 12:15 p.m. to 1 p.m.

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

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

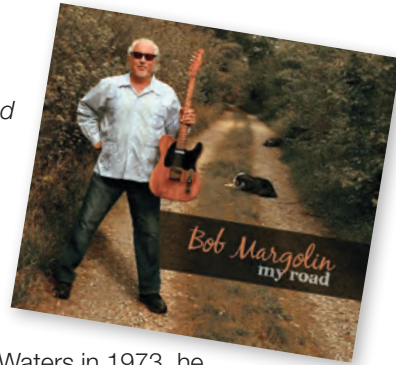


CONCERT SERIES**American Roots Music***Various Artists*

Come enjoy the Garden and *Flourish: Inside and Out* as you listen to the sounds of American roots music! *Please note:* Limited seating available on a first come, first served basis.

JUNE 2ND CONCERT:*Bob Margolin*

Bob Margolin is a multi-award winning guitar player, songwriter, and singer. Hired by Muddy Waters in 1973, he spent seven years on Muddy's right side, playing on Grammy-winning albums and star-studded shows, including Martin Scorsese's classic film "The Last Waltz." Now with his own band, he's released 11 of his own albums while also still producing and performing with countless blues artists. The recipient of numerous W.C. Handy/Blues Musician Awards and a Keeping the Blues Alive Award recipient for Journalism, Bob continues to tour all over the world, wherever his road takes him.

**JUNE 16TH CONCERT:***Dave Chappell*

Dave Chappell, a Washington, DC native, is one of the most sought after and respected musicians in the area. For the last several years, he has won the Washington Area Music Awards (WAMMIES) for 'Musician of the Year' and 'Roots Rock Instrumentalist of the Year.' He has performed with Rock and Roll Hall of Fame legends Jerry Lee Lewis, Sam Moore of Sam & Dave, Percy Sledge, Johnny Johnson, and guitar wizard Danny Gatton. Join us for a full concert of Western Swing classic and originals!

**DATE:** Thursday, June 2 and 16**TIME:** 5 p.m. to 7 p.m.**LOCATION:** Conservatory Terrace (Rain Location: Conservatory Garden Court)**FREE:** No pre-registration required**LECTURE****Hawaii: A Botanical Paradise in the Middle of the Sea***Todd Brethauer, USBG Science Education Volunteer*

In celebration of Kamehameha Day, the USBG offers an informative lecture on the evolutionary forces that shaped Hawaii's unique native plant communities. Highlights include how the arrival of humans and their animal companions changed the botanical landscape, and how the early Hawaiians used the plants to meet their food, fiber, shelter, tool, religious, and medicinal needs. The lecture highlights the important work of the National Tropical Botanical Garden and the Lyon Arboretum of the University of Hawaii in conserving the islands unique plant life and ethnobotanical heritage.

DATE: Friday, June 3**TIME:** 12 p.m. to 1 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov*Hibiscus brackenridgei***WORKSHOP****Horticultural Therapy: The Slower We Go the Faster We Get There***Lana Dreyfuss, LCADC, SEP, HTR, former president AHTA, current treasurer AHTA**Helianthus sp.*

What is horticultural therapy and how can it be beneficial to special populations? In this presentation we will explore horticultural therapy and how it can serve as an activity-based intervention utilizing the natural world, mindfulness, and our parasympathetic nervous systems. *Please note:* This is an experiential presentation that includes a hands-on activity.

DATE: Saturday, June 4**TIME:** 10:30 a.m. to 2:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov

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

Heather Markowitz, Founder, WithLoveDC

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

DATES: Saturdays, June 4, 11, 18, 25

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

LOCATION: National Garden Lawn Terrace (Rain Location: Conservatory West Gallery)

FREE: No pre-registration required

LECTURE**Copper Flowers: An Artistic and Botanical Journey**

Trailer McQuilkin, artist

Join artist Trailer McQuilkin as he discusses his artistic and botanical journey in the creation of botanically accurate plants in copper. Specializing in documenting rare and endangered species, Trailer will explain his use of sheet copper, copper wire, metal primer, oil paints and natural materials to create these impressive sculptures. *Please note:* This program is offered in conjunction with the Botanical Art Society of the National Capital Region. Only 20 seats will be available for USBG visitors. Doors will open at 1:20 p.m.



DATE: Sunday, June 5

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

LOCATION: Conservatory Classroom

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

TOUR**An Afternoon in the Garden**

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

DATES: Tuesdays, June 7, 14, 21, 28

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

LOCATION: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

TOUR**Noon-time Stroll through the National Garden**

Alexandra Torres, USBG Education Program Specialist

Join Alexandra for a noon-time tour of the National Garden. Enjoy a beautiful stroll around the outdoor gardens, learning about our fascinating history, some of our favorite native plants, and the sustainable gardening techniques used to create and care for these gardens. *Please note:* This tour is held outdoors. We suggest bringing sunscreen, protective clothing, and water. The tour is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).

DATES: Thursdays, June 9, 16, 23, 30

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

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

FREE: No pre-registration required



10th
Anniversary
National Garden



LECTURE

Milkweeds and Orchids: Survival of the Most Efficient

Tatyana Livshultz, Ph.D., Assistant Professor, Drexel University, Assistant Curator, Academy of Natural Sciences

The relationship between plants and their pollinators is usually regarded as a mutualism beneficial to both. In fact, it is a careful balance between mutualism and antagonism since the two parties have fundamentally different interests (reproduction and food, respectively). For the average flowering plant, less than 1% of the pollen removed by pollinators is delivered to stigmas of the same species; the other 99% is lost or eaten. Milkweeds (Apocynaceae, subfamily Asclepiadoideae) and orchids (Orchidaceae) have independently evolved remarkably similar solutions to the unreliability of animal pollinators. The average pollen transfer efficiency of these two groups is 25%. In this presentation, the function of the complex flowers of milkweeds and orchids will be explained. We will consider how and why these adaptations may have evolved and how they may have shaped the subsequent evolution of both groups.

DATE: Friday, June 10

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

LOCATION: Conservatory Classroom

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



FESTIVAL

Celebrating Flourish: Inside and Out!

Come help us celebrate this year's summer terrace exhibit *Flourish: Inside and Out!* Highlighting the positive ways plants impact people, the Celebrating Flourish Festival will showcase activities to hit on all your senses. Dig in the soil to make herbal seed balls, taste delicious cuisine from the Cook Sisters, delight in the rainbow array of colors along the Terrace, explore therapeutic horticulture practices used by organizations in the DC area, and much more!

DATE: Saturday, June 11

TIME: 10 a.m. to 4 p.m.

LOCATION: Conservatory Terrace (Rain Location: Conservatory Garden Court)

FREE: No pre-registration required

TOUR

"Perim-a-Tour" of the National Garden

Bill McLaughlin, USBG Curator, and Anna Mische John, USBG Gardener

The perimeter of the National Garden offers a unique twist on the concept of plant gardening. Eschewing the regional definition of "native," the garden features plants from throughout North America, showing the beauty and diversity of our continent's flora. Join Bill and Anna for the first time offering of this tour. *Please note:* This tour is held outdoors. Registration will be limited to 15 participants. We suggest bringing sunscreen, protective clothing, and water. The tour is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).

DATE: Tuesday, June 14

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

LOCATION: Tour will meet by the entrance to the National Garden on the Conservatory Terrace

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



TOUR**Medicinal and Poisonous Plants at the USBG**

Beth Burrous, Biochemist and USBG Volunteer Docent

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 lifesaving medicines.



DATE: Tuesday, June 14

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

LOCATION: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

TOUR**Flourish: An Overview**

Ray Mims, USBG Conservation and Sustainability Horticulturist

Working with, being in, and seeing plants and nature can be beneficial in numerous ways. Join Ray for this overview tour of the USBG's summer exhibit, *Flourish: Inside and Out*. Spend some time on the terrace discussing sensory plants and programs around the country that use plants in programs and curricula. Walk through the East Gallery and learn about plants for the indoors and adaptable tools, all of which should excite you to embrace nature and inspire you to flourish both inside and out!

DATE: Thursday, June 16

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

LOCATION: Conservatory Terrace and East Gallery

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

**SPECIAL EVENT****Marvelous Mead: The Sweet Science of Fermentation**

Ryan Bixenmann, Co-founder, Dick and Karl's World Famous Beer

Come on a tasting journey of two delicious honey-derived beverages as you learn about the science of fermentation and the history of mead and other fermented honey pick-me-ups. Join Ryan Bixenmann, co-founder of Dick and Karl's World Famous Beer, as he delves into the world of these delightful drinks, including the cultural and regional variations in fermented honey beverages. All the while enjoying a sample of his home-made Sweet mead and Braggot! *Please note:* This program is intended for those 21 years of age and older. Small bites will be served to accompany the tasting journey.

DATE: Friday, June 17

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

LOCATION: Conservatory Garden Court

FRIENDS: \$25

NON-MEMBERS: \$35

Pre-registration required, visit www.usbg.gov



WORKSHOP**The Art and Botany of Orchid Flowers**

Justin Kondrat, USBG Gardener, and Mara Menahan, USBG Botanical Illustrator

Join Justin and Mara for an intimate view of orchids and their floral diversity. With access to the Garden's extensive orchid collection, Justin will show students how orchids are biologically unique and Mara will then help students capture these forms in pencil and watercolor. *Please note:* This workshop is intended for students with some drawing experience. Materials will be provided, but for those students wanting to use their own supplies, a materials list can be found with the online listing.

DATE: Saturday, June 18

TIME: 9 a.m. to 1:30 p.m.

LOCATION: Conservatory Classroom

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



Cattleya maxima 'Santa Barbara'

**DEMONSTRATION****Creating Beautiful Containers**

Margaret Atwell, USBG Gardener, and Beth Ahern, USBG Gardener

You don't need a lot of room to grow plants! Try growing your favorite flowers, herbs or vegetables in containers. Spend an hour with Beth and Margaret as they demonstrate the proper techniques for planting and maintaining containers at home.

DATE: Thursday, June 23

TIME: 1 p.m. to 2 p.m.

LOCATION: Conservatory East Gallery

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

**SPECIAL EVENT****Pollinator Party!**

Jim Willmott, USBG Plant Health Care Specialist, Eric Leavitt, USBG Gardener, and Dr. Ari Novy, USBG Executive Director

Does your garden flutter? Is it abuzz with flighty friends? Whether you are invested in insect garden visitors or just want to learn more, come celebrate pollinators at the USBG during this special event. Join Jim Willmott, Eric Leavitt, and Dr. Ari Novy as they share the wonders of what butterflies, bumblebee, and honeybees bring to the environment, and then help them release select butterflies into our Butterfly Garden! *Please note:* This program will be offered twice, at 10:30 a.m. and 12 p.m. It is held outdoors. We suggest bringing sunscreen, protective clothing, and water. The program is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).

DATE: Friday, June 24

TIME: 10:30 a.m. to 11 a.m. and 12 p.m. to 12:30 p.m.

LOCATION: National Garden Butterfly Garden

FREE: No pre-registration required



TOUR**Perfect Plant Hosts for Pollinators***Bill McLaughlin, USBG Curator*

Join Bill on the walking tour of the National Garden as he shares his favorite butterfly (and moth!) nectar and larval hosts. Learn what to plant to attract these marvelous native pollinators and see what beautiful nectar bearing flowers are in bloom in the garden. *Please note:* This program is held outdoors. We suggest bringing sunscreen, protective clothing, and water. The program is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).

**DATE:** Friday, June 24**TIME:** 2 p.m. to 3 p.m.**LOCATION:** Tour meets by the entrance to the Conservatory on the Terrace**FREE:** Pre-registration required, visit www.usbg.gov**CONCERT****Songs and Dances of the Pua (Flowers) of Hawai'i***Hawai'i State Society of Washington D.C. `Ukulele Hui*

Join the Hawai'i State Society of Washington D.C. `Ukulele Hui as they depict in song and dance the beautiful flowers of Hawai'i, such as the yellow ginger, pikake, hibiscus, carnation, green rose, lehua, gardenia, bird-of-paradise, and more.



Celebrate the pua, or flower, which serves as a metaphor for a child or someone very cherished. Learn how lei, made up of these special flowers, are presented to people for occasions involving love, friendship, joy, congratulations, and best wishes.

DATE: Saturday, June 25**TIME:** 11:30 a.m. to 1 p.m.**LOCATION:** National Garden Amphitheater
(Rain Location: Conservatory Garden Court)**FREE:** No pre-registration required**TOUR****Lunchtime Tour of the Conservatory***USBG Volunteer Docent*

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

DATES: Mondays, July 11, 18, 25; Wednesdays, July 6, 13, 20, 27;
Fridays, July 1, 8, 15, 22, 29**TIME:** 12 p.m. to 1 p.m.**LOCATION:** Tour meets in the Conservatory Garden Court**FREE:** No pre-registration required**TOUR****Medicinal and Poisonous Plants at the USBG***Beth Burrous, Biochemist and USBG Volunteer Docent*

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 lifesaving medicines.

DATE: Tuesday, July 5**TIME:** 12 p.m. to 1 p.m.**LOCATION:** Tour meets in the Conservatory Garden Court**FREE:** No pre-registration required**TOUR****An Afternoon in the Garden***USBG Volunteer Docent*

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

DATES: Tuesdays, July 5, 12, 19, 26**TIME:** 2 p.m. to 3 p.m.**LOCATION:** Tour meets in the Conservatory Garden Court**FREE:** No pre-registration required

DEMONSTRATION**Totally Tomatoes**

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

Learn—and taste—new ways to prepare the undisputed star of the summer garden, the sun-ripened tomato. All-new recipes from the Cook Sisters. *Please note:* The 12:50 p.m. program is a repeat of the 12 p.m. program.

DATES: Thursdays, July 7 and 28

TIME: 12 p.m. to 12:45 p.m. and 12:50 p.m. to 1:30 p.m.

LOCATION: Conservatory Garden Court

FREE: No pre-registration required

**TOUR****Noon-time Stroll through the National Garden**

Alexandra Torres, USBG Education Program Specialist

Join Alexandra for a noon-time tour of the National Garden. Enjoy a beautiful stroll around the outdoor gardens, learning about our fascinating history, some of our favorite native plants, and the sustainable gardening techniques used to create and care for these gardens. *Please note:* There is no tour scheduled for July 21. This tour is held outdoors. We suggest bringing sunscreen, protective clothing, and water. The tour is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).



10th
Anniversary
National Garden

DATES: Thursdays, July 7, 14, 28

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

LOCATION: Tour meets on the Terrace in front of the entrance to the Conservatory

FREE: No pre-registration required

CONCERT SERIES**American Roots Music**

Various Artists

Come enjoy the Garden and *Flourish: Inside and Out* as you listen to the sounds of American roots music! *Please note:* Limited seating available on a first come, first served basis.

JULY 7TH CONCERT:

Jarekus Singleton

At just 30 years old, Jarekus Singleton is a musical trailblazer with a bold vision for the future of the blues. Springing from the same Mississippi soil as Charley Patton, Muddy Waters and B.B. King, Singleton's cutting-edge sound—equally rooted in rap, rock, and blues traditions—is all his own. He melds hip-hop wordplay, rock energy, and R&B grooves with contemporary and traditional blues, turning audiences of all ages into devoted fans. With his untamed guitar licks and strong, soulful voice effortlessly moving from ferocious and funky to slow and steamy to smoking hot, Singleton is a fresh, electrifying bluesman bursting at the seams with talent.

**JULY 21ST CONCERT:**

Fast Eddie & The Slowpokes



This harmonica-driven five piece band is inspired by classic roots material from Chicago to West Coast Swing and the Delta to Muscle Shoals, and all the rock n' blues in between. Fast Eddie & The

Slowpokes have performed from Senate Caucus rooms to festivals to roadhouses. They have shared the stage with Victor Wainwright (2013 Pinetop Perkins Award Winner) and The Nighthawks. They won the 2012 DC Blues Society Battle of the Bands and represented the DC Blues Society at 2013 The International Blues Challenge in Memphis!

DATE: Thursday, July 7 and 21

TIME: 5 p.m. to 7 p.m.

LOCATION: Conservatory Terrace (Rain Location: Conservatory Garden Court)

FREE: No pre-registration required

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

Heather Markowitz, Founder, WithLoveDC



WithLoveDC is a movement to spread love, joy, and acceptance throughout the District. The Practice With Love classes aim to create an accessible space for all people to tune into their breath while enjoying the amazing spaces around our beautiful city. WithLoveDC is thrilled to bring their free yoga gatherings to the U.S. Botanic Garden; come flow with us! *Please note:* This program is first-come, first-served with limited space available. Visitors are encouraged to bring their own mats. *Please note:* There is no class scheduled on July 1.

DATES: Saturdays, July 9, 16, 23, 30

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

LOCATION: National Garden Lawn Terrace (Rain Location: Conservatory West Gallery)

FREE: No pre-registration required

SPECIAL EVENT**Meet the Artists: *Flora of the National Parks***

Various exhibit artists

Plants are a key part of many visitors' experiences in national parks. Meet and greet some of the artists whose work depicting the flora found in America's national parks is featured in this exhibit. Explore the exhibit with the opportunity to ask questions about the artists' techniques, hear their stories and tips, and see how they capture the beauty of these national treasures. *Please note:* This program will be repeated in September.

DATE: Saturday, July 9

TIME: 1 p.m. to 2 p.m.

LOCATION: Conservatory West Gallery

FREE: No pre-registration required

**TOUR****Flourish: An Overview**

Anna Mische John, USBG Gardener

Working with, being in, and seeing plants and nature can be beneficial in numerous ways. Join Anna for this overview tour of the USBG's summer exhibit, *Flourish: Inside and Out*. Spend some time on the terrace discussing sensory plants and programs around the country that use plants in programs and curricula. Walk through the East Gallery and learn about plants for the indoors and adaptable tools, all of which should excite you to embrace nature and inspire you to flourish both inside and out!

DATE: Thursday, July 14

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

LOCATION: Conservatory Terrace and East Gallery

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

LECTURE**Horticultural Therapy in Healthcare and Beyond**

Matthew J. Wichrowski, MSW, HTR, Sr. Horticultural Therapist, Clinical Assistant Professor, Rusk Rehabilitation, NYU-Langone Medical Center

Interest in the beneficial effects of nature has been on the rise lately. Join us as we explore the foundations of horticultural therapy and its use in healthcare settings, including therapeutic garden design. Recommendations for personal health and wellness are provided.

DATE: Friday, July 15

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

LOCATION: Conservatory Classroom

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

LECTURE**Exploring and Photographing the Florida Everglades**

Larry Treadwell, *Nature and Wildlife Photographer*

Photographing the Everglades can be both frustrating and challenging. This workshop will provide both tips on what to see and how to capture images of this unique and mysterious place.

DATE: Saturday, July 16

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

LOCATION: Conservatory Classroom

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



Larry Treadwell



Larry Treadwell

CHILDREN'S MUSIC PROGRAM**Rainforest Air**

Cantaré

Join us for music and magical tales from the heart of the rainforest. Cantaré's original song delivers a powerful ecological message about protecting the rainforest and the plants, animals, and people that live there. Audience members will experience song, folk stories, and dance from the rainforest of South America, Central America, and Puerto Rico. *Please note:* The 3:15 p.m. concert will be a repeat of the 1:30 p.m. concert. Limited seating will be available on a first come, first served basis.

Cantaré performers Cecilia Esquivel and Dani Cortaza are very active in the Washington area music scene and have extensive training in performance and music education. Vocals are accompanied by string and percussion instruments from Latin America with bass, percussion, and keyboard backing tracks.

DATE: Sunday, July 17

TIME: 1:30 p.m. to 2:15 p.m. and 3:15 p.m. to 4 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 and outside the Garden's walls during the summer season.

DATE: Wednesday, July 20

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

LOCATION: Tour meets in the Conservatory Garden Court

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



TOUR**Travel the Tropics**

Angela Weber Hetrick,
USBG Gardener

Join Angela for a talk and walk on the 'wild side' as you explore the Tropics in our Conservatory. Discover some of the many plants found on our diverse planet, from to the Amazon Rainforest to the Yucatan Peninsula, as you trek through our canopy walk and view some spectacular bloomers. Come for a 45-minute tour and learn about a new plant or two!

DATE: Thursday, July 21

TIME: 11 a.m. to 11:45 a.m.

LOCATION: Tour meets in the Conservatory Garden Court

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

**LECTURE****How Does Nature Impact Health?**

Barbara Kreski, Director, Horticultural Therapy Services,
Chicago Botanic Garden

Connecting with nature has many documented physical, cognitive, and psychological benefits. We'll talk about some of the surprising ways "going green" can help you flourish.

DATE: Friday, July 22

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

LOCATION: Conservatory Classroom

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

SPECIAL EVENT**Discover the Mediterranean!**

Adam Pyle, USBG Horticulturist

Ever dreamed of traveling to the Mediterranean? Wondered why plants that grow in California, Australia, and Greece have distinct similarities? Then join Adam for this talk and tour through Mediterranean, the USBG's newest permanent exhibit and collection. Learn about the five regions of the world that feature a uniquely Mediterranean climate, diverse flora, and a rich cultural heritage. From planning to planting, you'll get a behind-the-scenes view of how this new house came to be a part of the USBG. Plus you'll get a taste of *la dolce vita* with a small sampling of Mediterranean flavors along the way!

DATE: Friday, July 29

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

LOCATION: Conservatory Classroom and Mediterranean

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





Rosmarinus officinalis

Todd Brethauer

LECTURE

Mints: Their Botany, Chemistry and Uses

Todd Brethauer, USBG Science Education Volunteer

The mint family enlivens our gardens with distinctive colors and fragrances. They spice up cuisines around the world. Come spend an hour with Todd to learn what about their botany and chemistry makes them so interesting to our noses and our taste buds.

DATE: Saturday, July 30

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

LOCATION: Conservatory Classroom

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

WORKSHOP

Horticultural Therapy in Action!

Edward Goodman, Manager, Greenhouse Operations, Melwood

Something is always happening in the horticultural therapy program at Melwood. Join Edward as he discusses maintaining a fine line between production and therapy, focusing on Melwood participants and keeping them active. Then participate in an activity well-loved at Melwood: making gourd broaches with natural materials. There is never a dull moment, so stay on your toes!

DATE: Saturday, July 30

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

LOCATION: Conservatory Classroom

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



TOUR

Lunchtime Tour of the Conservatory

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

DATES: Mondays, August 1, 8, 15, 22, 29;
Wednesdays, August 3, 10, 17, 24, 31;
Fridays, August 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

TOUR

An Afternoon in the Garden

USBG Volunteer Docent

Want to visit a jungle, desert, and tropical paradise? Want to travel back to the U.S. Exploring Expedition and the Jurassic period? Take a tour with a knowledgeable guide who will connect the exotic plant world to everyday life. You might see bananas, cacao, and coffee ripening on the tree or learn about the next big breakthrough in medicinal plant research.

DATES: Tuesdays, August 2, 9, 16, 23, 30

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

LOCATION: Tour meets in the Conservatory Garden Court

FREE: No pre-registration required

DEMONSTRATION

Mediterranean Harvest

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

Join the Cook Sisters and enjoy a Mediterranean meal cooking demonstration inspired by the USBG's new Mediterranean room. *Please note:* The 12:50 p.m. program is a repeat of the 12 p.m. program.

DATES: Thursdays, August 4 and 25

TIME: 12 p.m. to 12:45 p.m. and 12:50 p.m. to 1:30 p.m.

LOCATION: Conservatory Garden Court

FREE: No pre-registration required

CONCERT SERIES**American Roots Music***Various Artists*

Come enjoy the Garden and *Flourish: Inside and Out* as you listen to the sounds of American roots music! *Please note:* Limited seating available on a first come, first served basis.

AUGUST 4TH CONCERT:*The Crawdaddies*

Hailing from the East Coast, The Crawdaddies' music combines some of Louisiana's Cajun, Zydeco, and Blues sounds with North Eastern's Roots Rock, Americana, and Ska influences to create a very unique sound that is all its own. Consummate headliners, the eclectic, good-time spirit of their set has allowed The Crawdaddies to share the stage with a wide range of artists including: Etta James, Trombone Shorty, Dr. John, Buddy Guy, CJ Chenier, Joan Jett, Edgar Winter, Buckwheat Zydeco, and Reel Big Fish to name a few. The Crawdaddies were also invited to perform on the 2009 Mardi Gras Mambo Tour with Dr. John and the Neville Brothers.

**AUGUST 18TH CONCERT:***Vintage#18*

Since 2013, Vintage#18 has become well-known as a dynamic soul and blues band igniting stages throughout the Northern Virginia, Maryland, and Washington D.C. areas with their engaging live performance and stick-to-your-bones groove. Built on a framework of uniquely talented and dedicated musicians, the band features the vintage sound of Bill Holter (guitar), the groove is laid by Alex Kuldell (drums) and Mark Chandler (bass), with sultry lead vocals by Robbin Kapsalis, captivating audiences with her soulful voice and infectious live show. The energy of the band is undeniable and together Vintage#18 delivers hard-driving blues rhythms and soul grooves you can move to. The band has many influences which include Koko Taylor, Etta James, and a host of Stax and Chess artists.

DATE: Thursday, August 4 and 18**TIME:** 5 p.m. to 7 p.m.**LOCATION:** Conservatory Terrace (Rain Location: Conservatory Garden Court)**FREE:** No pre-registration required**FITNESS EVENT****Practice with Love Yoga Gatherings:
Stop and Smell the Roses***Heather Markowitz, Founder, WithLoveDC*

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

DATES: Saturdays, August 6, 13, 20, 27**TIME:** 10:30 a.m. to 11:30 a.m.**LOCATION:** National Garden Lawn Terrace
(Rain Location: Conservatory West Gallery)**FREE:** No pre-registration required**WORKSHOP****Canning with Honey and Maple***Marisa McClellan, Author, Food in Jars*

Want to preserve without cups and cups of refined sugar? Learn how to safely and deliciously can using honey and maple with cookbook author and Food in Jars blogger Marisa McClellan. She'll demonstrate how to making jam using Pomona's Pectin to ensure a set, show you how to preserve peach halves in honey syrup, and will ensure that you know how to properly employ the boiling water bath method for safe, shelf-stable preservation. All students will go home with the recipes and canning details, as well as the two jars of preserves they make in class that day. *Please note:* Registration will be limited to 20 participants.

DATE: Saturday, August 6**TIME:** 10:30 a.m. to 12:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov

WORKSHOP**An Introduction to Preserving Beets***Marisa McClellan, Author, Food in Jars*

Looking for the secret to making not-too-sweet jams and preserves? Learn how to safely and deliciously put up using coconut sugar and fruit juice concentrates with cookbook author and Food in Jars blogger Marisa McClellan. She'll demonstrate how to making jam using Pomona's Pectin to ensure a set, show you how to transform excess garden produce into meal-enhancing relishes, and will ensure that you know how to properly employ the boiling water bath method for safe, shelf-stable preservation. All students will go home with the recipes and canning details, as well as the two jars of beets they make in class that day. *Please note:* Registration will be limited to 20 participants.

**DATE:** Saturday, August 6**TIME:** 1:30 p.m. to 3:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**WORKSHOP****Principles of Therapeutic Garden Design***Clare Johnson, Horticultural Therapy Services Manager and Design Consultant, Chicago Botanic Garden*

Therapeutic landscapes are a necessity in health and human service environments as well as in everyday life. They promote healing, reduce stress, and provide a place of respite for all who visit.

When designing a garden for therapeutic purposes, it is imperative

to address each of these principles: the program, the people, and the place. An outdoor green space will only become therapeutic when it is designed with the intended audience and programmatic intentions at the forefront of every decision.

DATE: Saturday, August 13**TIME:** 10:30 a.m. to 4:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**LECTURE****Children and Nature: Why Nature is Critical to Development***Katherine Knight, Horticultural Therapy Department Assistant, Chicago Botanic Garden*

There is compelling evidence that spending time outdoors engaged in nature is critical to child development physically, emotionally, and cognitively. Some of the impacts are fairly obvious but many may surprise you. Hear the evidence advocating children's play in green settings and how therapeutic horticulture may contribute.

DATE: Sunday, August 14**TIME:** 2 p.m. to 3:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**TOUR****Flourish: An Overview***Ray Mims, USBG Conservation and Sustainability Horticulturist*

Working with, being in, and seeing plants and nature can be beneficial in numerous ways. Join Ray for this overview tour of the USBG's summer exhibit, *Flourish: Inside and Out*. Spend some time on the terrace discussing sensory plants and programs around the country that use plants in programs and curricula. Walk through the East Gallery and learn about plants for the indoors and adaptable tools, all of which should excite you to embrace nature and inspire you to flourish both inside and out!

DATE: Wednesday, August 17**TIME:** 10:30 a.m. to 11:30 a.m.**LOCATION:** Conservatory Terrace and East Gallery**FREE:** Pre-registration required, visit www.usbg.gov

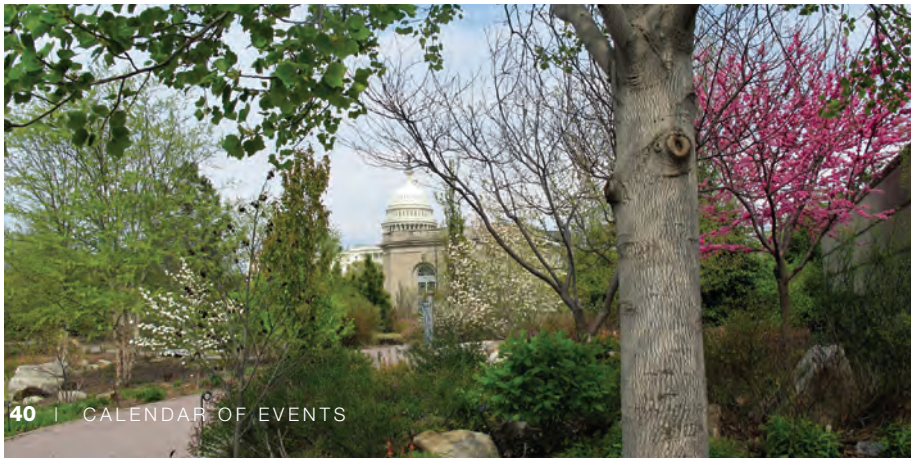
TOUR**Travel the Tropics***Angela Weber Hetrick, USBG Gardener*

Join Angela for a talk and walk on the 'wild side' as you explore the Tropics in our Conservatory. Discover some of the many plants found on our diverse planet, from the Amazon Rainforest to the Yucatan Peninsula, as you trek through our canopy walk and view some spectacular bloomers. Come for a 45-minute tour and learn about a new plant or two!

**DATE:** Thursday, August 18**TIME:** 11 a.m. to 11:45 a.m.**LOCATION:** Tour meets in the Conservatory Garden Court**FREE:** Pre-registration required, visit www.usbg.gov**TOUR****Celebrating 10 Years of Trees in the National Garden***Alexandra Torres, USBG Education Program Specialist*

In honor of the National Garden's 10-year anniversary, join Education Specialist and Certified Arborist Alexandra Torres to learn about 10 of our favorite native trees and shrubs. On this tour we will cover interesting identifying features, discover beautiful native trees and shrubs that can add year round interest to your garden, and talk about gardening tips to get your trees and shrubs growing to their full potential.

Please note: Tour on August 25 is a repeat of the tour on August 18. This tour is held outdoors. We suggest bringing sunscreen, protective clothing, and water. The tour is canceled if it rains or during times of extreme heat (heat index of 95 degrees or higher/Code Red weather alert).

DATES: Thursdays, August 18, 25**TIME:** 12 p.m. to 1 p.m.**LOCATION:** Tour meets by the entrance to the Conservatory on the Terrace**FREE:** Pre-registration required, visit www.usbg.gov**DEMONSTRATION****Making Chocolate: From Bean to Bar***Adam Kavalier, Founder and CEO, Undone Chocolate*

Where does chocolate come from and how is it made? Join Adam Kavalier, founder and CEO of DC based Undone Chocolate, in this special program and learn how chocolate is made from scratch. Starting with the raw cocoa bean, Adam will guide us through the 9-step journey to make a chocolate bar using basic kitchen equipment. By the end of the program you will be a professional chocolate maker ready to return home and impress your friends! *Please note:* The 3 p.m. workshop is a repeat of the 2 p.m. workshop.

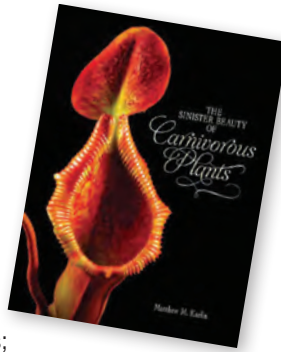
DATE: Saturday, August 20**TIME:** 2 p.m. to 2:45 p.m. and 3 p.m. to 3:45 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**TOUR****Backstage Pass: The U.S. Botanic Garden Production Facility***USBG Staff*

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

DATE: Wednesday, August 24**TIME:** 10:30 a.m. to 12 p.m.**LOCATION:** Tour will meet at the entrance to the Production Facility**FREE:** Pre-registration required, visit www.usbg.gov

LECTURE**The Sinister Beauty of Carnivorous Plants***Matt Kaelin, Author*

Join Matt for a discussion of his new book, *The Sinister Beauty of Carnivorous Plants*, which portrays the alluring nature of carnivorous plants in a collection of vivid botanical photography. Using images from the book, learn about the cultivation requirements for growing these fantastic specimens; carnivorous plants native to Matt's home on Long Island, NY; the threats to these plants' natural habitats; and the conservation organizations that are working to protect them.

**DATE:** Saturday, August 27**TIME:** 10:30 a.m. to 12 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**LECTURE****Finding New Species in the Nation's Capital: The George Washington Memorial Parkway All-taxa Biodiversity Inventory***Brent Steury, Natural Resources Manager, National Park Service*

Join Brent as he summarizes 11 years of biodiversity inventory efforts from a National Park near the Nation's Capital. Highlights of these efforts include the documentation of 5,395 species, 100 species new to the flora or fauna of Virginia, 7 species new to the District of Columbia, 3 species new to North America, at least 71 species new to science, 106 species state listed for rarity, 3 federally threatened species, and 58 peer reviewed journal articles published in the last 11 years.

DATE: Saturday, August 27**TIME:** 2 p.m. to 3 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov**WORKSHOP****Making Delicious Herbal Teas from Scratch***Hilda M. Krus, Director, GreenHouse Program and Horticultural Therapist, and Sarah Schlep, GreenHouse Instructor and Horticultural Therapist*

The GreenHouse Program, run by the Horticultural Society of NY since 1986 in collaboration with the NYC Department of Correction and the Department of Education, provides incarcerated women and men with horticultural therapy, classroom horticultural training, and applied education as well as year-round hands-on experience in designing, installing, and maintaining gardens within several facilities. Upon return to the community, program graduates are eligible to enter our post-release program GreenTeam in collaboration with various community-based partner organizations. *Please note:* The 3:30 p.m. workshop is a repeat of the 1:30 p.m. workshop.

DATE: Saturday, August 28**TIME:** 1:30 p.m. to 2:30 p.m. and 3:30 p.m. to 4:30 p.m.**LOCATION:** Conservatory Classroom**FREE:** Pre-registration required, visit www.usbg.gov

UPCOMING PROGRAMS

Mark your calendars for these programs in early September!

CHILDREN'S PROGRAM

Seedlings

Lee Coykendall, USBG Children's Education Specialist, and Alex Torres, USBG Education Specialist

Join us for four weeks of hands-on plant science for our Seedlings class (ages 6–10). Each week we will explore the amazing world of plants through science, art, and scientific inquiry. 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 participate in class activities.



DATES: Tuesdays, September 6, 13, 20, 27

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

LOCATION: Conservatory Classroom

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

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

CHILDREN'S PROGRAM

Sprouts

Lee Coykendall, USBG Children's Education Specialist, and Alex Torres, USBG Education Specialist

Dig in to plants with your preschooler (ages 3-5). Join us for four weeks of art, science, and a walking adventure of our gardens as we explore the fascinating world of plants. Please note: Children must be accompanied by an adult. Participating children must be at least 3 years of age. The 1:30 p.m. program is a repeat of the 10:30 a.m. program.

DATES: Wednesdays, September 7, 14, 21, 28

TIME: 10:30 a.m. to 11:30 a.m. or 1:30 p.m. to 2:30 p.m.

LOCATION: Conservatory Classroom

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

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



TEACHER TRAINING

How Plants Work for Elementary School Teachers

Lee Coykendall, USBG Children's Education Specialist

Wondering how to incorporate more plant science in to your classroom? 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: Wednesday, September 7

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

LOCATION: Conservatory Classroom

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



PARENT & CHILD PROGRAM

Snugglers

USBG Volunteer Docent

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

DATE (choose any or all of the following): Thursdays, September 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



CONCERT SERIES

American Roots Music

The Brummy Brothers

Come enjoy the Garden and *Flourish: Inside and Out* as you listen to the sounds of American roots music! *Please note:* Limited seating available on a first come, first served basis.

Hailing from New Jersey, The Brummy Brothers original blend of bluegrass, roots rock, and improvisation forms a sound and energy that allows them to be found playing anywhere from clubs, to folk festivals, to farmers markets. And it's a good thing, because if one thing is clear, it's that these guys love to play music. In May 2014 The Brummy Brothers released their debut album "On Our Way," allowing the band to share the composite of their time together. The record incorporates harmonizing voices, striking instrumental prowess, and expert arrangement to bring everything together. Fans just can't wait to, "Shake their BRUM!"

DATE: Thursday, September 8

TIME: 3 p.m. to 5 p.m.

LOCATION: Conservatory Garden Court

FREE: No pre-registration required

LECTURE

All the Presidents' Gardens



Marta McDowell, garden writer

An entertaining romp through our nation's garden history as seen through the changing grounds at the White House, starring the presidents, first ladies, and their gardeners.

See how horticulture, both edible and ornamental, at the White House have

mirrored horticultural fashions in the country as a whole.

DATE: Friday, September 9

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

LOCATION: Conservatory Classroom

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



LECTURE

Pome Fruit: Apples, Pears & Quince – Botany, History and Production

Todd Brethauer, USBG Science Education Volunteer

From their glorious spring blossoms that light up our landscapes to the tasty fruit harvested in late summer through late autumn, pome fruits play an important part of our horticultural and nutritional palettes. Spend an hour learning about the origin of the apple and where you can find a forest of its wild ancestors. Find out how modern genome sequencing techniques are clarifying the evolutionary history of these fruits and providing tools for breeders confronting insect pests and diseases that affect the trees.

DATE: Saturday, September 10

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

LOCATION: Conservatory Classroom

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



Malus domestica



Malus domestica

SPECIAL EVENT

Meet the Artists: Flora of the National Parks

Various exhibit artists

Plants are a key part of many visitors' experiences in national parks. Meet and greet some of the artists whose work depicting the flora found in America's national parks is featured in this exhibit. Explore the exhibit with the opportunity to ask questions about the artists' techniques, hear their stories and tips, and see how they capture the beauty of these national treasures.

DATE: Saturday, September 10

TIME: 1 p.m. to 2 p.m.

LOCATION: Conservatory West Gallery

FREE: No pre-registration required



SPECIAL EVENT**10th Anniversary National Garden Gala***National Fund for the U.S. Botanic Garden*

Help us celebrate the National Garden's 10th anniversary! Ten years ago, a three-acre lot at the foot of the Capitol was transformed into a spectacular outdoor museum known as the National Garden. Since 2006, the National Garden has demonstrated a great diversity of the Mid-Atlantic flora, cultivated roses, and pollinator-attracting plants. It has also served as a living laboratory to educate countless visitors about plants while connecting people to nature. Join us as we celebrate the 10th anniversary of the unveiling of this living oasis in our nation's capital. The exclusive evening includes a cocktail hour in the National Garden, seated dinner in the Conservatory, entertainment, and you!

DATE: Thursday, September 15**TIME:** 6 p.m.**LOCATION:** Conservatory and National Garden

Pre-registration required, visit www.nfusbg.org/events for ticket pricing or contact the National Fund at (202) 225-1281 for additional information. No registrations will be accepted at the door.




GARDEN TOURS ON YOUR MOBILE PHONE

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

PHONE CALL OPTION

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

SMARTPHONE OPTION

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

QR CODE OPTION

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

CONSERVATORY

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

NATIONAL GARDEN

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

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

Normal fees apply to your call.

BECOME A JUNIOR BOTANIST!

Hey kids! The U.S. Botanic Garden is looking for Junior Botanists. Who are these strange green life forms among us? Since they make our lives possible, it is a good idea to get to know them! When you visit the USBG bring along an adult advisor with an official ID (such as a driver's license) and check out a Junior Botanist Adventure Field Kit. The backpack is filled with cool tools to use during your explorations. When you complete each of the Adventure Sheets you will become an Apprentice Junior Botanist. Follow up your visit to the USBG with an at-home activity, then apply to our botanist and become an official USBG Junior Botanist. Please note that completion of the Adventure Sheets usually takes an individual several visits. The program is free. *Please note:* Schools may reserve Junior Botanist on Fridays by contacting our Children's Education Specialist at lcoykend@aoc.gov.

Upon successful completion of the Adventure Sheets, Junior Botanists will receive a certificate signed by our botanist, a field journal, an explorer's lens, and an invitation for a behind-the-scenes tour with our botanist.



BECOME A FRIEND OF THE NATIONAL FUND



The National Fund for the United States Botanic Garden was initially established as a 501(c)3 in 1989 to fund and build the National Garden. The National Fund now supports the educational activities of the USBG, including the Hands On Plant Science (HOPS) summer program, the National Garden Internship, Landscape for Life, and D.C. Teachers Night.

Partners in Education

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

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

FRIEND (\$75 per year)

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

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

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

FIRST FRIEND (\$250 per year)

- All benefits listed previously

NATIONAL FRIEND (\$500 per year)

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

CAPITOL FRIEND (\$1,000 per year)

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

To learn more visit www.nfusbg.org/membership

About Registration

- Class sizes are limited. Early registration is recommended.
- To register online for programs, go to the U.S. Botanic Garden website at www.usbg.gov.
- To register by mail, complete the form and send to: Registrar, U.S. Botanic Garden
245 First St SW
Washington, DC 20515
- To register by telephone with a credit card, call 202-225-1116.
- Registration fees must be paid in advance. Payment cannot be accepted at the door.
- The U.S. Botanic Garden reserves the right to substitute instructors or cancel programs when necessary.
- Registration fees will be refunded only in the case of program cancellation by the U.S. Botanic Garden.

USBG Program Registration Form *Please print*

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

Street Address _____

City _____ State _____ Zip _____

Phone (Required) Daytime _____ Evening _____

E-mail Address _____

Please indicate (X)

- I am a current FRIEND.
- I would like to become a FRIEND: \$75
- I would like to become a JUNIOR FRIEND: For First Friends under 40; \$150 per year
- I would like to become a FIRST FRIEND: \$250
- I would like to become a NATIONAL FRIEND: \$500
- I would like to become a CAPITOL FRIEND: \$1,000
- I am not interested in membership at this time

Program Title	# of Participants	Fees

FRIEND membership _____

Total Fees _____

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

Card Number _____ Expiration Date _____

Signature _____



United States Botanic Garden

245 First Street, SW
Washington, DC 20515