As a Garden member, did you know that:

- You get free admission for two adults and all children 12 and under to the Shaw Nature Reserve and Sophia M. Sachs Butterfly House?
- You get free admission to the Children’s Garden all day Tuesday, and from 9 a.m. to noon, Wednesday and Saturday? (Closed November–March)
- Special members’ days entitle you to exclusive events and activities, as well as free tram rides and discounts in the gift shop and café?
- You get free or reduced price admission to nearly 270 botanical gardens and arboreta in the U.S. and Canada?

These are only a few of the benefits of membership. If you upgrade your membership, you get even more! Visit us at www.mobot.org/membership, e-mail membership@mobot.org, or call (314) 577-5118.
Garden Hours
The Garden is open 9 a.m. to 5 p.m. every day except December 25.
Outdoor walking hours begin at 7 a.m. Wednesday and Saturday (except during signature events).

General Admission
$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).
Children’s Garden: $5 for children; adults admitted free. ($3 for Garden members’ children.) Members’ children admitted free on Tuesdays. Open April through October.

Contact
Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

On the Cover:
Japanese Garden in fall. Photo by Emily Amberger.

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Sustainability
The Missouri Botanical Garden Bulletin is printed on paper containing 100% post-consumer recycled content, that is, paper that you might have placed in the recycle bin in your home or office this year. It is manufactured using wind power, a renewable energy source. We print locally, so there is no long-haul transportation, and we’re reinvesting in our community. We work hard to choose the most environmentally responsible paper around. So if you aren’t quite ready to go completely electronic with our online version, you can still enjoy your paper Bulletin in good conscience. Once you’ve read it, please recycle.

To discover and share knowledge about plants and their environment in order to preserve and enrich life.
— mission of the Missouri Botanical Garden
Monsanto Helps Fund World Flora Online

The Missouri Botanical Garden has received a three-year, $3 million gift from Monsanto Company to support its work on the development of a World Flora Online.

The World Flora is an international collaborative effort to develop the first-ever comprehensive online resource for the world’s approximately 400,000 known plant species. Monsanto’s support will fund the Garden’s contributions to this endeavor from 2012 to 2015.

“The proposed World Flora Online will be an invaluable, accessible treatment of the world’s plant diversity that will act as a baseline to support global efforts to identify, safeguard, sustainably use, and manage plants for humankind,” said Garden President Dr. Peter Wyse Jackson. “The importance of Monsanto Company’s funding for this international endeavor cannot be overstated.”

In 2002, the United Nations Convention on Biological Diversity adopted a Global Strategy for Plant Conservation (GSPC). This was subsequently updated in 2010 with the aim of halting the loss of plant species worldwide by 2020. The online flora is the first of 16 targets identified by the GSPC to be achieved by 2020.

In 2012 the Missouri Botanical Garden; New York Botanical Garden; Royal Botanic Garden Edinburgh; and Royal Botanic Gardens, Kew signed a Memorandum of Understanding detailing their intent to work together to support the development of a World Flora Online. They will be joined in this work by a large number of other botanical institutions worldwide.

Wells Fargo Supports Green Schools Program

Thanks to support from Wells Fargo Advisors, Missouri Botanical Garden educators were able to work with students in the St. Louis Public Schools during the 2011–2012 school year through the Green Schools Program.

Over 250 students at Dunbar Elementary School, L’Ouverture Middle School, and Vashon High School participated through classroom lessons, student-conducted green school audits, and student projects.

“As the students conduct their work, they educate their classmates, making students in each of the three schools aware of the research and ways to make their schools and lives more sustainable.”

Garden Receives NSF Grant for Undergraduate Research Program

Ten undergraduate students from Florida, Illinois, Michigan, Missouri, South Dakota, and Puerto Rico spent ten weeks in St. Louis this summer conducting research projects under the mentorship of Missouri Botanical Garden Ph.D. scientists, thanks to a three-year, $338,878 grant from the National Science Foundation (NSF).

The Research Experiences for Undergraduates Program (REU) allows students to work on independent mentored projects in plant systematics, conservation biology, and ethnobotany. REU students train in all aspects of...
scientific research, from project design to presentation of results.

“The REU program fills an open niche at the Missouri Botanical Garden,” said Dr. David Bogler, assistant curator at the Garden and principal investigator (PI) and coordinator of the REU program. “We have educational programs for K–12 students and graduate students, and now an active program for undergraduates.”

**Power Up with Essence**

Stop by Essence Healthcare’s “Power Up” booth in Ridgway Visitor Center on Wednesday and Saturday mornings, September 5–26, from 7 to 11 a.m. You’ll receive tips for healthy living, information on Garden walking routes, and a healthy snack to “power up” your Garden walk.

**Volunteer Appreciation Evening**

On May 21, the Garden saluted its volunteers during our annual Volunteer Appreciation Evening. Dr. Peter Wyse Jackson presented special awards to the following outstanding individuals and groups:

- Sue Rogers, *Commitment Award*
- Donna Olson, *Dedication Award*
- Michael Schade, *Extra Service Hours Award*
- Ron Stevens, *Green Award*
- Dave Tognoni, *Rookie Volunteer of the Year Award*
- Gary Hartman, *Special Achievement Award*
- St. Louis Herb Society, *Group Excellence Award*
- Ann Case, *Lifetime Achievement Award*

Volunteer Service Recognition

To say the Garden would be lost without its volunteers is not much of an exaggeration. In 2011, 1,916 people volunteered nearly 152,000 hours of their time to the Garden. That’s the equivalent of 78 full-time staff. On May 24, the Garden celebrated the commitment of these volunteers at the annual volunteer service recognition luncheon.

**40 years of service:** Kaye Quentin began volunteering for the Garden in 1972. When she started in the Climatron®, one of her first tasks was raking leaves. She moved on to the Plant Records department a few years later, where she continues to volunteer her time. In the late 1970s when the Garden’s plant collections records migrated to computerized format, she helped convert over a hundred years of paper records to database. She continues to help record when plants in the collection move or die, track plant labels, and more.
Alyse Kuhlman (left) of the Garden’s William L. Brown Center meets with Ellie Justus to receive her donation for Madagascar cyclone relief.

11-year-old Pitches in for Cyclone Relief Drive

When cyclone Giovanna swept through the island nation of Madagascar February 13, thousands of people lost their homes and more than two dozen people were killed. The devastation also wiped out the nation’s rice crop and many fruit trees, leaving countless citizens vulnerable to starvation. The Garden’s William L. Brown Center conducts community-based conservation projects in Madagascar and began collecting donations to help with relief, and that’s when Ellie Justus decided to get involved.

11-year-old Ellie, whose parents Chuck and Amy are Garden members, heard Alyse Kuhlman, the Brown Center’s Madagascar Ethnobotany Program coordinator, discussing the devastation on television. Ellie began collecting donations at school, which she presented to Kuhlman June 15.

As little as $5 or $10, Kuhlman said, can make a big difference in Madagascar, one of the poorest nations in the world. “That can go a long way in helping us to feed this community where we work.”

The Garden’s William L. Brown Center is dedicated to the study of useful plants and the preservation of traditional knowledge.

The Big Stink:
Two Titan Arums Bloom

Since the plant *Amorphophallus titanum* was discovered in Sumatra nearly 120 years ago, fewer than 160 bloomings have occurred among the specimens in cultivation. They bloom rarely and only under just the right conditions. That’s why this past summer was a lucky time at the Garden, because not one but two of these plants, commonly called the titan arum or corpse flower, bloomed here.

The specimens were gifted to the Garden’s president emeritus, Dr. Peter Raven, in 2008 from Huntington Botanical Gardens in California. When they do flower, the plants emit an intense, foul odor that lasts about 24 hours. The first specimen bloomed in May and was displayed in the Linnean House. The second bloomed a month later in the Climatron®.

Donations from Boeing Employee Fund Reach $104,000

The Employees Community Fund (ECF) of Boeing St. Louis recently made a gift of $17,000 to the Garden’s EarthWays Center, bringing its total support of the Garden’s sustainability education initiatives to $104,000 over the last 11 years.

Donations from the ECF have supported volunteer program growth and management, homeowner sustainability education, the Green Resources Answer Service, and development of educational exhibits and videos. Most recently, the ECF provided funding for a planning study to examine how best to demonstrate sustainability resources to visitors at the Missouri Botanical Garden. The study will also consider future education and community outreach programs.
From the Garden’s Grill

Sure, summer is the traditional season to break out the grill, but the last place anyone wanted to be this summer was in front of hot coals when the mercury topped the century mark. As autumn ushered in cooler temperatures, though, make up for lost time with chef Diana Smith’s barbecue rub—all of the flavor, none of the heatstroke.

Barbecue Rub

Yield: 1 cup

- 2 Tablespoons Kosher salt
- 4 Tablespoons brown sugar
- 4 Tablespoons ground cumin
- 2 Tablespoons freshly ground black pepper
- 2 Tablespoons chili powder
- 4 Tablespoons paprika
- 4 Tablespoons dried parsley flakes

Combine all the ingredients in a medium mixing bowl. Stir with a whisk to blend. Store in a tightly covered jar.

Use this rub on ribs, pork steaks, or chicken. Simply rub a generous amount into the meat, then roast or grill.

For ribs: Rub the ribs on both sides with the BBQ rub. Place ribs on a baking sheet in a preheated 175° oven for 3 hours. Do not bother to turn them, because these ribs are being slow cooked and infused with the spices. Remove the ribs from the oven. They can be grilled immediately or refrigerated, covered, for up to two days.

Grill over a low charcoal fire with the rack set as high as possible. Allow a light crust to form on the ribs before turning them over. Once the ribs are heated through and have a nice crust on each side, remove them from the grill, slice between the bones and serve.

Learn more:

Join Diana Smith for her class, Gifts from the Kitchen, on Saturday, November 10 at 10 a.m. Diana will teach how to make last-minute hostess or thank-you gifts, from chocolate-dipped candied orange peels to Creole seasoning. $35 members; $42 nonmembers. For information or to register, visit www.mobot.org/classes.

“The grants from the Employees Community Fund of Boeing St. Louis, reviewed and awarded by Boeing employee teams, are a unique vote of support for the work of our EarthWays Center,” said Glenda Abney, the center’s director.

University Awards Garden Botanist Honorary Degree

The University of British Columbia (UBC) recently awarded honorary Doctor of Science degrees to Walter Lewis and Memory Elvin-Lewis. Walter Lewis is a senior botanist at the Missouri Botanical Garden and emeritus professor of biology at Washington University; Memory is a professor of microbiology and ethnobotany and adjunct professor of biology. The honorary degrees were presented during spring congregation at UBC, their alma mater, on May 26.

Madidi Project Featured in Science

An article in the journal Science recently featured the Missouri Botanical Garden’s Madidi Project, highlighting the study in the Madidi National Park of Bolivia to document the effect of climate change on tree species. The project, led by Garden Curator Dr. Peter Jorgensen, has been ongoing for ten years.

Researchers have been measuring tree growth to determine how tree species have been reacting to changes in their environment and human activity. Elevation in the park ranges from 180 to 6,000 meters above sea level, allowing researchers to observe whether trees are shifting their range instead of adapting in place.

The article appeared in the July 20, 2012 issue of Science.
It’s probably no surprise that the Missouri Botanical Garden keeps track of every plant within its walls. Botanical gardens have kept records of their living collections for hundreds of years, dating as far back as the 16th century.

“The Garden is not just a pretty park. We’re a living museum,” said Rebecca Sucher, living collections manager at the Garden. “As such, we curate our plant collections.”

Only in recent decades, though, have plant records gone digital.

The Garden is currently integrating its plant collections database—the record of every plant grown at the Garden—with a geographic information system (GIS). This involves merging database information with maps, making it easy to analyze and share data between departments, with other institutions, and with visitors to the Garden.

The Plant Records staff keeps track of nearly every plant that enters the Garden. The database records whether it was purchased, donated, or collected in the wild and, if it was wild-collected, the latitude, longitude, altitude, and so on.

All those data tell a story, even if it’s as simple as what to find where in the Garden.
The Garden is working with the Desert Botanical Garden in Phoenix, Arizona on this project, thanks to a grant DBG received from the Institute of Museum and Library Services (IMLS) to create a centralized GIS database for its living plant collections. The Garden has also received a $25,000 grant from the National Park Service’s National Center for Preservation Technology and Training to develop, test, and disseminate a system to facilitate data gathering on living collections. This would allow data to be gathered and entered directly into a web-based data form from a computer tablet for inventory management and outreach purposes.

All gardens are struggling with records management, Sucher said. There is no single standard recordkeeping format, which makes sharing of data cumbersome. “Nobody knows what everyone else has,” she said, “which makes collaboration on threatened species conservation projects extremely difficult.”

The Garden is using ArcGIS software created by ESRI, a California-based technology company. Working out in the Garden, staff can use a tablet such as an iPad to update a plant’s record including information about its condition, whether it’s been moved, or if it’s died. The database gets updated without even having to set foot in an office and turn on a computer.

Garden staff is currently building the core database for this project. The Garden has just been awarded a grant from the William T. Kemper Foundation—Commerce Bank, Trustee, to complete Phase I of the project. The Garden also won a Museums for America grant from IMLS to create database modules for greenhouse tracking, Gardening Help, and conservation management.

There’ll be an app for that

Putting this kind of information in the hands of visitors, in a user-friendly format, would give them the potential to customize their visit to the Garden in ways that are personally relevant, said Sheila Voss, vice president of Education. “While the Garden has important stories, knowledge and ideas to share, so do our visitors,” she said.

Incorporating plant database information into customizable visitor guides and educational materials will transform the visitor experience into a participatory one that prompts, questions, and challenges, she said. It would also allow visitors to share their own experiences through interactive features accessible online and via smartphones. The Garden is working this year on the pilot phase of the “MyGuide” series of visitor engagement tools and tactics, thanks to a grant and technical expertise provided by Maritz.

The plant collections database can also share information with Tropicos®, the world’s largest botanical database, said Chris Freeland, a research associate and former director of the Garden’s Center for Biodiversity Informatics. A visitor to the Garden might learn about a plant in the collection, then scan a QR (Quick Read) code on the plant’s label to find out where other species of the same type of plant occur all over the world. If it’s available, they could even pull up pictures of the plant in its native habitat and tips from Gardening Help on how to grow it here.

That’s the goal, at least, Freeland said. The Garden is actively seeking additional funding to bring all the benefits of this system to fruition.

“It will be rolled out gradually, and the results will keep users of the website and visitors to the Garden engaged,” he said.
To many gardeners, pruning is a mysterious and misunderstood art. Next to watering, though, it may be one of the most important things you do for your plants.

Pruning involves removing part of a plant for the benefit of the whole plant. You may be removing dead, dying, or diseased parts; helping maintain an open plant crown for good air and sunlight penetration; directing and encouraging growth; or increasing flower and fruit production.

There are three types of pruning cuts:

- **Drop-crotch cuts**—used to remove the terminal end of a branch to a lateral branch; also used for height and size reduction.
- **Thinning cuts**—used to remove a lateral branch to its point of origin on a branch or to the trunk; also used to reduce over-crown density.
- **Heading cuts**—made indiscriminately along the stem, typically when shearing hedges or creating formal shapes. Heading cuts should never be made on a mature tree, which results in the production of poorly attached, weak wooded stems that are prone to breakage. Often referred to as “topping.”

The first priority in pruning is to remove branches that are dead, dying, or diseased. This prevents the potential spread of rot and disease into the healthy part of the plant.

Many trees produce two types of undesirable growth from latent buds: *water sprouts*, which grow vertically from the trunk; and *root suckers*, which start at the roots. Both grow vigorously and can quickly overtake the plant, robbing it of important nutrients. Remove them at their point of origin.

Unpruned trees often develop branches that compete for space and sunlight. In time, some branches are shaded out and may die. Remove competing branches that will have the least impact on the overall crown appearance, density, and symmetry. Prune to establish good vertical spacing of branches along the length of the trunk and radial spacing of branches around the trunk.

Pruning requires practice and observation. Be patient and begin slowly. It’s always better to remove too little than too much. Follow the steps outlined above, and you’ll produce a healthy, vigorous plant for many years of enjoyment.

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**Learn more**

Join Ben Chu for “Basic Pruning,” offered Thursday, September 27, 7 to 9 p.m., at the Garden. Find out when and how to prune, correct damage from pests, see a live pruning demonstration, and more. $25 members, $30 nonmembers. For information or to sign up, visit [www.mobot.org/classes](http://www.mobot.org/classes).
Dusk settles on the Costa Rican rainforest. The air begins to cool as the sun sets, and animals begin to seek a quiet place to pass the night. Suddenly there’s a flash of wings and three massive shapes speed through the air right at eye level. They seem much too large to be butterflies, but they are! This is the owl butterfly, the largest butterfly found in the New World. Unlike most butterflies, the owl only flies at dusk and dawn, a behavioral pattern known as crepuscular activity.

The Butterfly House is hosting 1,000 owl butterflies every day during the month of October. The owl butterfly gets its name from the large eyespot on each hind wing that startles predators into thinking it is much fiercer than it really is.

Come during the day and you will find huge groups of owl butterflies feeding from mashed-up bananas on tree trunks. Each Tuesday night, join us as we stay open until 7 p.m. to watch these magnificent butterflies fly in pairs and trios around our conservatory. The sheer number of butterflies in flight offers an astounding air show like no other.

Each Tuesday evening will also feature a 30-minute informal talk on owl butterflies, rainforests, and other topics. The talk is included with Butterfly House admission.

The butterflies are accompanied by over 200 blooming orchids. The orchids’ fantastic colors and spectacular shapes delight the senses. Some orchids also produce beautiful aromas that fill the tropical air with fragrance. We will have a wide variety of arboreal and terrestrial orchids on display. Orchids will also be available for purchase in the Madame Butterfly Gift Shop.

October Owls and Orchids is a fabulous treat that can be seen only at the Butterfly House, October 1–31, 9 a.m. to 4 p.m. Closed Mondays and open Tuesdays until 7 p.m.
Approximately 87% of Missouri’s wetlands have been destroyed since the first European settlers began to carve a living from the state’s woodlands, prairies, and bottomland forests. The United States has lost half its wetlands and continues to lose 60,000 acres annually.

Wetlands are considered the most biologically diverse of all ecosystems, serving as home to a wide range of plant and animal life. When rivers overflow, wetlands help absorb and slow floodwaters. They also absorb excess nutrients, sediment, and pollutants before they reach rivers, lakes, and other water bodies. Wetlands are great spots for fishing, canoeing, hiking, and birdwatching, and they make wonderful outdoor classrooms for people of all ages.

Governmental agencies and conservation organizations are working to stop the loss of wetlands. Under the Clean Water Act, the Army Corps of Engineers regulates and enforces policy related to wetlands. Any projects that impact wetlands must be deemed unavoidable to be authorized by the Corps. If impacts are considered unavoidable, compensation is required to mitigate for lost wetland functions and value. One solution is to buy wetland credits from an approved “wetland bank.”

Shaw Nature Reserve, with support from the Edward K. Love Conservation Foundation, is working with the Corps to create an 85-acre wetland mitigation bank in the Meramec River flood plain. The bank will contain 34 acres of wetland, a 39-acre prairie buffer, and a 12-acre tree planting.

This bank will contain 46 credits that entities can purchase to mitigate for impacts to wetland habitat in the Meramec River watershed. The sale of credits is monitored by the Corps, but the revenue generated will be used for ecological restoration activities at the Reserve. Over time, the wetland bank will generate approximately $1 million in revenue, along with critically needed wetland habitat and important water quality benefits for the Meramec River watershed.

Prairie Day
Saturday, September 15, 10 a.m. to 4 p.m., Shaw Nature Reserve

Hitch up the wagons and head out to this fun-filled family event portraying prairie heritage through activities and demonstrations. Hike the Reserve’s 250-acre tallgrass prairie, play pioneer games, see craft demonstrations, and more. Sponsored by the Reserve and the Missouri Department of Conservation. Admission: $3 Garden members and Reserve passholders; $6 nonmembers 16 and older; $2 for children 15 and under. Information: (636) 451-3512.

‘Banking’ on Wetlands
April through June 2012
A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the Bulletin. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, mobot.org.

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Ms. Leah Rubin
Lisa Anic
Mr. and Mrs. John Westermeyer
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Members’ Entry Court

Bricks dedicated at the Garden, April through June 2012.
Engraved clay bricks and bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden’s brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit www.mobot.org.

Signature
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100th Anniversary Celebration

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Lori and Corey Kil Kelly
Mr. and Mrs. Corey Kil Kelly

Alice McNeill
Mr. and Mrs. Guy L. McDonald

Engraved Clay Bricks

Sophie Krinski
Mr. and Mrs. Thomas L. Krinski

Henry Matsutani
Friends

Zain Khaleed Mounir
Dr. Suzanne and Mr. Joseph C. Hagan

Fred Reichman
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Martha A. Rybinski
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Rich and Alex Usher
Mr. and Mrs. David R. Usher

Sue and Ken Wilke
Mr. and Mrs. Kenneth E. Wilke

Upper-level Members

In appreciation of our members’ ongoing generosity, we would like to thank the following who renewed or increased their support during April through June 2012. We appreciate your commitment to the Garden’s mission and hope that you enjoy all the benefits that your membership offers.

Patron
($10,000 to $14,999)
Mr. and Mrs. William H. T. Bush
Mr. and Mrs. David M. Hollo
Mrs. William C. Schloch

Garden Ambassador
($5,000 to $8,999)
Mr. David S. Obedin and Mrs. Clare M. Davis

Garden Fellow
($2,500 to $4,999)
Thomas and Kathleen Fingleton
Mr. and Mrs. Lawrence E. Langsam
Mrs. Don C. Musick, Jr.

Henry Shaw Associate
($1,500 to $2,499)
Mr. and Mrs. Robert L. Brannon
Drs. Jacob and Katherine Buchowski

Mr. and Mrs. Thomas S. Carnahan
Mr. and Mrs. Ronald W. Case
Mrs. Georgia D. Van Cleve
Dr. and Mrs. James R. Criscione
Mrs. Carol Damnal
Mr. and Mrs. Carl J. Deutsch
Mr. and Mrs. Donald J. Diemer
Mr. James Franklin
Mr. and Mrs. David O. Gifford
Mrs. Harry J. Hippenmeyer
Mark and Leslie Hood
Robert and Cynthia Hormann
Miss Ann Hubel
Mr. and Mrs. James E. Hullverson, Jr.
Mrs. Landon Young Jones

Wesley Jones and Nancy Ylvisaker
Mr. and Mrs. Kenneth Kranzberg
Mr. and Mrs. John Marcus
Mrs. Lucas B. Morse III
Mr. and Mrs. William Pohlohan
Mr. and Mrs. Douglas E. Reed
Mr. and Mrs.* Clarence E. Roth
Mr. and Mrs. Harvey Saligman
Mr. and Mrs. Tom W. Santel
Mr. and Mrs. John W. Shepley
Mr. and Mrs. Richard Straub
Mr. and Mrs. Tom W. Santel
Mr. and Mrs. Grenville G. Sutcliffe
Mr. and Mrs. Herbert M. Talcott
Dr. and Mrs. William K.Y. Tao
Mr. and Mrs. Joseph S. von Kaenel
Mr. and Mrs. Richard K. Weil, Jr.

President’s Circle
($1,000 to $1,499)
Ms. Velma R. Boyer
Mr. Michael Cozad
Ms. Suzanne Eaton
Ms. Arlene Howe and Mr. Brad Lavellee
Mr. and Mrs. Dan Wilke

* deceased

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House, April through June 2012. To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Tributes
In Memory of
Betty Schilling (BH)
Mr. and Mrs. James S. Minogue
Mr. and Mrs. Jerry E. Ritter
Mrs. Patricia Smiley
Mrs. Leslie Van Meir
Mr. and Mrs. Daniel S. Warner

Pavers
Jean Behrle
Friends from BJ/C/WUSM

Emma and Elizabeth Brown
Mrs. Janet Preston

Norma Jean Hunt
Ms. Roberta A. Zeisler

Blair Michaela
Shahan Lane
Friends

Bob and Betty Little
Buddy and Susan Burr,
Mike and Martha McCoy,
Jim and Kathleen Little,
and Liz Little

Marion D. McBride
Tom, Bill, Mary Beth, Liz,
Nonna, Pete, Mike, Mary
Anne, Linda, and Joe

Donald F. Mueller
Jeanmarie M. Stassi

Jim and Betty Mulvany
Friends

Gregg Neely
Mrs. Judith L. Neely

Amada and Brad Nivens
Mom and Dad Nivens
Mom and Dad McGregor

Anne, Gert, Marge, and Jane
O’Malley
Mrs. Joan Marie O’Malley

Ellen Painter
Sophia M. Sachs Butterfly House Friends

Pasquale “Pat” Palmieri
Theresa Ciccolella
Maureen McNamara
Jessica Ciccolella-Kahl
Paul Ciccolella

James R. Powers
Sophia M. Sachs Butterfly House Friends

Ellen Roeder
Vince Giardano,
Joe Giardano, Denise
Smith, and Natalie
Roberson

Brenda Sayers
Jack, Carmen, and Cole Harris

photo by Emily Amberger

photo by David Merrit

photo by David Merrit
Grapes and the Garden
Saturday, May 5, 2012
Nearly 600 guests attended this afternoon event sponsored by Schnuck Markets. Over 100 wines were available for sampling, along with hors d’oeuvres and live music by the jazz trio Silk Pajamas.

(photos by David Merrit)
The Garden’s spectacular summer exhibit got off to an equally spectacular start with a gala event attended by 547 members and guests. A 70-foot-long Chinese dragon led guests to Cohen Amphitheater for themed entertainment followed by the ceremonial first lighting of the lanterns. As of August 3, more than 110,000 visitors had attended the Garden’s Lantern Festival.

(photos by Josh Monken, Chris Norton, and Mary Lou Olson)
Events

Herbalooza
Thursday, September 6, 5:30 to 7:30 p.m., Doris Waters Harris Lichtenstein Victorian District

Fall Wildflower Sale and Open Garden
Friday, September 7, 4 to 8 p.m., Shaw Nature Reserve
Both new and experienced gardeners will want to check out this special plant sale and native landscaping event. Whitmire Wildflower Garden staff and guest experts will help with your gardening dilemmas and show you how to use native plants in landscaping. Admission: $5.

Canopy Climb
Sundays, September 16 and 30, October 14 and 28, Missouri Botanical Garden and Shaw Nature Reserve
Take your passion for nature to new heights and explore trees like never before! You’ll learn how to ascend into the canopy where you can sit on branches, limb-walk, lie in hammocks, or relax in a suspended chair. Climbers must be at least 8 years old. Sessions last 90 minutes and start at 9:30 a.m., 11:30 a.m., 1:30 p.m., or 3:30 p.m. $35 members, $43 nonmembers (per child or adult climber; child price includes Garden admission for one accompanying adult chaperone). Advance registration required: www.mobot.org/classes or (314) 577-5140.

Green Homes and Great Health Festival
Saturday, September 29, 9 a.m. to 4 p.m.
Learn how to live green—and live healthier! Bring your home improvement ideas and talk with over 100 green product and service exhibitors. Shop the Green Marketplace, talk with physicians and other health experts, and take advantage of free flu shots. Presented by the EarthWays Center of the Missouri Botanical Garden and Ameren Missouri. Included with Garden admission. Information: www.greenhomesstl.org.

Japanese Festival
Saturday and Sunday, September 1 and 2, 10 a.m. to 8 p.m.; Monday, September 3 (Labor Day), 10 a.m. to 5 p.m.
The Garden’s annual celebration of Japanese culture includes taiko drumming, bon odori festival dancing, martial arts, candlelight walks in the Japanese Garden, and more. Rain or shine.
Admission: $15 adults (13 to 64), $10 seniors (65+), $5 members and children (3 to 12), members’ children free. Buy tickets in advance online at www.mobot.org. No trams, free hours, or early morning walking hours on signature event weekends.
Sponsorship support by Bodine Aluminum, Central States Coca-Cola Bottling Company, and Novus International.

Young Friends’ Fest-of-Ale
Friday, October 19, 6 to 10 p.m., Spoehrler Plaza
Enjoy beer tastings from a variety of local breweries, appetizers, live music by the Dive Poets, and great networking. Price: $20 members, $30 nonmembers through October 7; after October 7, $25 members, $35 nonmembers. Advance reservations required; www.mobot.org/festofale or (314) 577-9570.
Children’s Garden Seasonal Closing
Saturday and Sunday, October 27 and 28, 9 a.m. to 3 p.m.
Celebrate the turning of the seasons with fun activities as we put the Children’s Garden to bed! $5 per child; adults included with general Garden admission.

Gardenland Express
Wednesday, November 21 through Tuesday, January 1, 2013, Orthwein Floral Display Hall
The annual holiday flower and train show features model trains traveling through a miniature landscape of living plants. 9 a.m. to 5 p.m. daily; closes at 4 p.m. on Thanksgiving. Admission: Garden admission plus $5; free for members.

Members’ Preview: Wednesday, November 28, 5 p.m.
Sponsorship support by CBIZ & Mayer Hoffman McCann P.C. and Central States Coca-Cola Bottling Company.

Holiday Wreath Exhibit/Auction
November 22 through January 2, Ridgway Visitor Center
Enjoy these unique floral creations by some of the area’s finest floral designers. Bid on a wreath in a silent auction benefiting the Garden.

Just for Members
Members’ Event:
October Owls and Orchids
Tuesday, October 9, 5 p.m., Sophia M. Sachs Butterfly House
The population of owl butterflies increases from 150 to nearly 2,000 in October. Experience the conservatory full of these rare and beautiful flying insects on this special evening set aside for members. Reservations required for lecture at 6:30 p.m.; call (636) 530-0076, ext. 10.

Ghouls in the Garden
Sunday, October 28, 1 p.m.
Bring the little ones in costume for a fun-filled afternoon. Enjoy treats at themed stations. This members-only event is $5 for children 3–12, which includes free admission to the Doris I. Schnuck Children’s Garden. Reservations required: www.mobot.org/events

Members’ Day:
Holiday Decorating
Thursday, November 15, 11 a.m., Shoenberg Theater
Get tips for bedecking your home for the holidays from experts at Mary Tuttle’s Flowers. Reservations required: (314) 577-9570 or www.mobot.org/events.
## September 2012

*Average temperature: high 80.1°, low 60.3°
Average precipitation: 2.96 in.*

### What's in bloom?

- begonia
- dahlia
- aster
- coneflower
- bluebeard

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<tr>
<td>Go Green for the Holidays!</td>
<td>The Garden calendar and holiday cards are printed on recycled paper. Purchase yours today in the Garden Gate Shop.</td>
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<td>Greater St. Louis Iris Society Sale. RVC</td>
<td>Cafe Flora Brunch. 10 a.m. $ SP</td>
<td>Canopy Climb. $ SNR</td>
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<td>Power Up with Essence. 7 to 11 a.m. RVC</td>
<td>Herbalooza. 5:30 p.m. $ VD</td>
<td>Fall Wildflower Sale and Open Garden. 4 p.m. $ SNR</td>
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<td>Native Plant School: Reconstructing Tallgrass Prairies. 1 p.m. $ SNR</td>
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## October 2012

Average temperature: high 68.3°, low 48.2°
Average precipitation: 2.76 in.

### What's in bloom?

- **sunflower**
- **gourds**
- **pineapple sage**
- **monk's hood**
- **mums**

### Sunday
- **October Owls and Orchids**, through Oct. 31, BH

### Monday
- **October Owls and Orchids**, Extended Hours, 4 to 7 p.m., BH

### Tuesday
- **Members' Event**: October Owls and Orchids, 5 p.m., BH
- **October Owls and Orchids**, Extended Hours, 4 to 7 p.m., BH

### Wednesday
- **AARP Celebration of Life**, 8 a.m.

### Thursday
- **Native Plant School**: Small Flowering Trees, Shrubs and Vines, Part 3, 1 p.m., (phone) SNR
- **Native Plant School**: Book Review 2: "Noah's Garden" by Sara B. Stein, 5 p.m., SNR

### Friday
- **“First Look Friday.”**, 6 to 9 p.m., BH

### Saturday
- **9 a.m. $**, Members only: 8 to 9 a.m.

### Columbus Day
- **Canopy Climb**, 9:30 a.m., MBG

### October Owls and Orchids
- **Extended Hours**: 4 to 7 p.m., BH

### October 2012 Events

- **Partners for Just Trade**: trunk show, GGS
- **Greater St. Louis Daffodil Society Sale**, RVC
- **Booterflies**, 11 a.m., BH
- **Native Plant School**: Small Flowering Trees, Shrubs and Vines, Part 3, 1 p.m., (phone) SNR
- **Native Plant School**: Book Review 2: "Noah's Garden" by Sara B. Stein, 5 p.m., SNR
- **Booterflies**, 11 a.m., BH
- **Daffodil Society Sale**, RVC

### Closing for the Season
- **Children's Garden Closing**, 9 a.m. to 3 p.m., CHD
- **Around the World Wine Dinner**: Germany, 6:30 p.m., MBG
- **Daffodil Society Sale**, RVC
- **Booterflies**, 11 a.m., BH

### Members-only event
- **Canopy Climb**, 9:30 a.m., MBG

### Key
- **BH**: Butterfly House
- **CA**: Cohen Amphitheater
- **CBEC**: Commerce Bank Center for Science Education
- **CHD**: Children's Garden
- **CL**: Climates lawn
- **GGS**: Garden Gate Shop
- **JE**: Jordan Education Wing in the Visitor Center
- **KC**: Kemper Center for Home Gardening
- **LS**: Little Shop Around The Corner
- **MC**: Monsanto Center
- **MIH**: Monsanto Hall in Ridgway Visitor Center
- **RVC**: Ridgway Visitor Center
- **SNR**: Shaw Nature Reserve
- **SP**: Spink Pavilion
- **ST**: Shainberg Theater in Ridgway Visitor Center

### Photos
- By Lisa Francis, Heather Marie Osborn, Leslie Patrice, Ryan Rumberger, and Charles Schmidt
## November 2012

Average temperature: high 53.8°, low 36.7°
Average precipitation: 3.71 in.

### What's in bloom?
- fall color
- heliotrope
- crown of thorns
- pansies
- straw flowers

### Calendar

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<td>Victorian Christmas at Tower Grove House, through Dec. 30</td>
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**Gift of the Garden**
- Get a jump on holiday shopping! Buy Garden, Garden Plus, and Family level gift memberships at 20% off November 7–11 (Discounts apply to on-site sales only.)

**ELECTION DAY**
- Gift membership sale, through Nov. 11.

**VETERANS' DAY**
- Partners for Just Trade trunk show, GGS

**DIWALI**
- Partners for Just Trade trunk show, GGS

**ISLAMIC NEW YEAR**
- Around the World Wine Dinner: Greece, 6:30 p.m. $ CHD

**THANKSGIVING**
- Rich LoRusso food tasting with recipes from St. Louis Italians: The Hill and Beyond, 11 a.m. GGS

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**Average temperature:**
- High 53.8°, Low 36.7°

**Average precipitation:** 3.71 in.

**Photo credits:** Kat Douglas, Lisa Francis, Darcy Heine, Lauren Kirkwood, and Charles Schmidt

**Gift membership sale:** November 7–11 (Discounts apply to on-site sales only.)

**Gardenland Express:**
- November 21, 2012 through January 1, 2013
- Members’ Day: Holiday Decorating, 11 a.m. ST
- Science Café. “Women and Plants” 7 p.m. Herbie’s Restaurant, 405 N. Euclid Ave.
- Around the World Wine Dinner: Greece, 6:30 p.m. $ CHD

**Special events:**
- Victorian Christmas at Tower Grove House, through Dec. 30
- The Garden closes at 4 p.m.
- The Butterfly House is closed.
- Holiday Wreath Auction, through Jan. 2. RVC
- Rich LoRusso food tasting with recipes from St. Louis Italians: The Hill and Beyond, 11 a.m. GGS
Local Flavor

The Garden Gate Shop is always searching for great locally made products. Next time you visit the Garden drop by and check out our wide variety of tempting gourmet items and other unique gifts that are made right here in Missouri. Members always receive a discount.
Ready to Go Electronic?
The Bulletin is available as a downloadable PDF for viewing onscreen on your computer. Sign up for the new online version by sending an e-mail to membership@mobot.org. Let us know if you’d like to forego your paper subscription to save trees.

You can also send an e-mail to membership@mobot.org if:

- Your name is misspelled
- Your address is incorrect
- You receive more than one copy
- You no longer wish to receive the Bulletin

Friday, October 5, 6 to 9 p.m.; Saturday and Sunday, October 6–7, 9 a.m. to 5 p.m.

Over 120 Missouri food producers and crafters offer some of the state’s best products, from baked goods to toys, jewelry, and more. Live music and Kids Corner activities. See page 19 for details. Presented by Schnuck Markets.

(photos by Jean McCormack, Mary Lou Olson, Heather Marie Osborn, and Charles Schmidt)