President’s Comment

All winter I have looked forward to experiencing my first spring at the Missouri Botanical Garden, and it has certainly not disappointed. We could all have done without the tornadoes. Spring may be an exciting time at the Garden, but that kind of excitement we will be happy to do without. The Garden was spared major damage, for which we are all very thankful. The seasonal reopening of the Children’s Garden, Terrace Café, and Tower Grove House, as well as the resumption of tram tours, were accompanied by a spectacular display of spring flowering bulbs and the commencement of our TREEmendous schedule of activities celebrating the United Nations International Year of Forests.

This spring we also celebrated the four-decade legacy of the Garden’s president emeritus, Dr. Peter Raven, when the Board of Trustees dedicated and renamed the Garden’s library in his honor (see page 14). It is fitting that a botanical library recognized as one of the most important in the world should be named after the man who has been such an inspirational leader for the last four decades.

Sustainability informs all of our practices, and we continually seek to reduce our own environmental impact. We are expanding our composting program, our café is repackaging boxed lunches to be 100% compostable, and we are installing more water bottle filling stations throughout the Garden with an eye toward eliminating disposable plastic bottled water.

The Garden is so much more than the 79 acres of conservatories and horticultural displays in the city, or the nearly 2,500 acres of plant habitats at our Shaw Nature Reserve. Garden scientists conduct research in dozens of countries worldwide. Our members and volunteers take the message of the importance of plants to the wider public. Great examples of our valuable conservation work are the Center for Conservation and Sustainable Development’s studies in central Tennessee (see page 8). All of these contribute to achieving the United Nations’ Global Strategy for Plant Conservation, an important responsibility adopted by the Garden. We are formulating a new strategic plan for the Shaw Nature Reserve that will link the Reserve even more closely with the Garden and capitalize on its unique features to solidify contributions to the global strategy.

Botanical gardens play a leading role in safeguarding our planet’s biodiversity. This September, I’ll give a talk exclusively for our Garden members on Botanical Gardens and Plant Conservation. We’ll meet in Shoenberg Theater at 10 a.m. on Tuesday, September 20. I do hope you’ll come.

Dr. Peter Wyse Jackson, President

To discover and share knowledge about plants and their environment in order to preserve and enrich life.

— mission of the Missouri Botanical Garden

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On the Cover:
Sassafras grove in the Mausoleum grounds.
Photo by Paul Straatmann.

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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.

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
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Sustainability Statement
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.
Linnean House Reopens
The Linnean House, the oldest greenhouse in continuous operation west of the Mississippi River, has reopened after a more than 10-month, $1.5 million renovation that includes a new all-glass roof, repairs to doors, windows, and brickwork, and an in-ground heating system. The renovations were made possible by a generous gift from the Mabel Dorn Reeder Foundation; Dr. Mabel L. Purkerson, Trustee; and the estate of Mr. Downing Jenks.

Built in 1882, the Linnean House has mainly served as a home for the Garden’s camellia collection since the 1930s. The renovation also restores a portion of the conservatory to its original function as an orangery to overwinter citrus trees, palms, and ferns.

During renovations, the camellias were removed and stored temporarily at a greenhouse in Ste. Genevieve, Mo. The collection has returned along with pink jasmine vines (Jasminum polyanthum) and the fragrant olive trees (Osmanthus fragrans).

In Memoriam
Nancy Morrill Smith 1918–2010

Nancy Morrill Smith, a longtime friend of the Missouri Botanical Garden and wife of the late Garden Trustee and Board Chairman Robert Brookings Smith, died Monday, December 27, 2010. She was 92.

The couple encouraged and supported a renaissance of the Garden during an era in which public interest had waned. Among projects to which they contributed were construction of the Climatron®, which was built in 1959 during Mr. Smith’s term as chairman, and later the Brookings Interpretive Center.

Nancy Smith and her husband also were generous to several other St. Louis organizations, including Washington University, Opera Theatre of St. Louis, and Mary Institute and St. Louis Country Day School.

Mrs. Smith is survived by daughter Sally Smith Duffield (Alexander), grandson Brian Brookings Romanski, and sister-in-law Irene Randolph Morrill. She is preceded in death by her husband and a daughter, Susan Smith Romanski.

Nigel Mooney Encore
Jazz fans who didn’t get enough of Nigel Mooney at the Whitaker Music Festival on June 29 won’t want to miss an exclusive encore performance and wine tasting on Thursday, June 30.

Sponsored by Schnuck Markets, Inc., the event takes place at 6 p.m. in the Ridgway Visitor Center. Enjoy a champagne reception prior to a 6:30 p.m. performance by Mooney, followed by fine wine and food pairings under the stars.

Nigel Mooney is widely regarded as Ireland’s leading jazz singer and guitarist. A charismatic figure on the Dublin jazz and blues scenes since the early 1980s, his Griepwater Blues Band spearheaded the blues movement in Ireland and drew many fans of both jazz and the blues. The Dublin native’s first album, “All My Love’s In Vain” (Rubyworks), was released in 2005 to critical acclaim and has become one of Ireland’s highest selling albums by a jazz artist.

Tickets are $100 per person. Proceeds from the event will support the Garden’s annual Henry Shaw Fund appeal. For reservations, please call (314) 577-9500 or email heidi.dowgwillo@mobot.org.
Andrew Wyatt Named VP of Horticulture

The Missouri Botanical Garden has named Andrew Wyatt vice president of Horticulture. Wyatt’s experience spans nearly two decades as a leader in both living collections and botanical garden management.

“It is an honor to join a botanic garden that has had such a profoundly positive impact on conservation, research, and education at the international, national, and local level,” Wyatt said. “I am very much looking forward to helping the Missouri Botanical Garden continue its success in the future.”

Originally from Oxford, England, Wyatt has spent the past several years at the Santa Barbara Botanic Garden in California, most recently as interim director. Prior to that he worked at the Royal Botanic Gardens, Kew; the Chicago Botanic Garden; and the University of Oxford Botanic Garden.

Wyatt has received several awards including the Outstanding Conservation Study Award, Outstanding Dissertation Award, and Top Student Award for the Kew Diploma. He won three design competitions for plantings at Writtle University and three gold medals for exhibition gardens at the Chelsea Flower Show. Wyatt’s extensive research, writings, and work to recover museum collections after a natural disaster have made a significant impact on the industry.

Wyatt succeeds Jim Cocos who, after five years as vice president of horticulture, has elected to resume his former position as senior manager of horticulture.

Garden Launches “American City: St. Louis Architecture” Exhibit

The Missouri Botanical Garden will present a photo exhibit this summer documenting many of the St. Louis region’s architecturally significant structures, including three buildings at the Garden.

“American City: St. Louis Architecture” will be on display Friday, June 10 through Sunday, August 21 in the Garden’s Ridgway Visitor Center. Among the over 70 large-scale color photographs by William Zbaren of the city’s most important structures are the Linnean House, Climatron® conservatory, and Museum Building. They are drawn from the book American City: St. Louis Architecture, with essay by architectural writer Robert Sharoff. The book is available in the Garden Gate Shop. An opening reception and book signing will be held Friday, June 10, from 5 to 7:30 p.m. in the Visitor Center.

A portion of the funds raised from the exhibit will go toward the future renovation of the Museum Building, which housed the Garden’s original library and herbarium. The building is currently closed to the public.

The exhibit is included with Garden admission.

Green + Healthy = Fun

Two great Garden events are joining forces this year to help your family live green—and live healthier!

The Green Homes & Great Health Festival on Saturday, September 24, merges the EarthWays Center’s 10th annual Green Homes Festival with the Garden’s Healthy You Healthy Planet Festival. The event combines a celebration of sustainable living with the resources of Siteman Cancer Center, Barnes-Jewish Hospital, and Washington University School of Medicine.

Bring your home improvement ideas and talk with over 100 green product and service exhibitors. Discuss your health questions with BJC doctors and other professionals. Enjoy local foods, yoga and tai chi, live music, and solar car races. Take advantage of free health screenings and shop the Green Marketplace. Help paint a Metro bus and explore the giant inflatable human colon. Learn from expert workshops and talks about the many ways that plants, air, water, soil, and energy sustain our homes, our health, and our planet.

The Green Homes & Great Health Festival is included with regular Garden admission.
Deer Creek Project Highlights Rain Garden

The Missouri Botanical Garden has partnered with the Deer Creek Watershed Alliance and others on a demonstration rain garden at Mount Calvary Lutheran Church in Brentwood. Installation of a 3,000-square-foot bio-retention system and over 10,000 square feet of Missouri native plants began this spring at the church, located in the Deer Creek Watershed. The rain garden is designed to catch and slow the movement of storm water from the church’s parking lot into Deer Creek by allowing storm water to infiltrate the soil rather than enter storm water sewers.

“We hope the scientific data collected from this project will inform sound community decision making well into the future,” said Dr. Peter Wyse Jackson, president of the Garden.

Studies show that storm water runoff to sewers is responsible for a large amount of the pollution found in our rivers. A rain garden acts as both a sponge and a filter to capture storm water and the pollutants it carries with it. In addition to storm water management, rain gardens beautify property, create habitat for wildlife, and can save tax dollars by reducing the need to build bigger storm water drainage facilities.

A key goal of the Deer Creek Watershed Alliance, a project of the Garden, is to showcase plant-based projects that reduce water pollution. Mount Calvary Rain Garden partners include the Metropolitan St. Louis Sewer District, Missouri Department of Natural Resources, and Washington University.

Follow-up monitoring will take place over a five-year period to measure the project’s effectiveness in improving water quality.

Garden Researchers Help Identify New Genus

The Missouri Botanical Garden has played a significant role in identifying a new genus, *Yasunia*, with two confirmed species from Ecuador and Peru, *Y. quadrata* and *Y. sessiliflora*.

New species are often found among the samples that are gifted to the Missouri Botanical Garden for identification. While hundreds of new plant species are identified each year, new genera are extremely uncommon, and being coupled with the two new species makes *Yasunia* very distinctive.

“There are many new species found mostly in the tropics each year,” said Henk van der Werff, head of Monographic Studies at the Garden. “Typically, new species differ in minor characteristics from their close relatives. New genera differ in major characteristics from their relatives, and such a find is truly a matter of luck and perseverance.”

In 1993, Garden staff member David Neill collected the first sample in the Amazon lowlands of Ecuador, yet it remained an undetermined specimen due to lack of detail. Local staff conducting floristic inventory in the Yasuni National Park collected additional specimens from a tagged tree, and it was determined that the characteristics present in the new specimens did not fit into any of the recognized neotropical genera of the Lauraceae family.

In 2003 the collection of the second species was located in the upper Rio Utiquiria in Ucayali (Peru) near the border of Brazil. In minor details, it...
is very different from the Ecuadorian species. DNA of the two *Yasunia* species and their related analysis may ultimately result in changes of the classification of the plant family.

“Usually, when a new genus is discovered, it is associated with only one species. It is very unusual to find two new species belonging to the same new genus. *Yasunia* with two new species is one of those very rare cases,” said Van der Werff.

For Charlotte Taylor (left) and Carmen Ulloa, every herbarium specimen has a story to tell.

**Garden Curators in Encyclopedia of Life Podcast**

Missouri Botanical Garden curators Maria del Carmen Ulloa and Charlotte Taylor were recently featured in the Encyclopedia of Life series *One Species at a Time*, which explores the planet’s biodiversity by focusing on a single species in each podcast episode. Ulloa and Taylor spoke with host Ari Daniel Shapiro about the quinine tree (*Cinchona pubescens*), whose bark contains the quinine molecule and has been used as a fever remedy and anti-malarial medicine. To listen to the podcast, visit education.eol.org/podcast/quinine-tree.

**Garden to Host Global Partnership for Plant Conservation Conference**

The Missouri Botanical Garden will host a conference of the Global Partnership for Plant Conservation this summer, bringing together plant conservation scientists, policy makers, and practitioners worldwide to share expertise on how the plant conservation community will support the implementation of the Global Strategy for Plant Conservation (GSPC) in the coming decade.

The conference will take place at the Garden July 5–7.

The GSPC highlights the importance of plants and the ecosystem services they provide for all life on Earth, and aims to ensure their conservation. It consists of 16 targets originally adopted in 2002 for achievement by 2010. The targets were recently revised and updated by the Convention on Biological Diversity setting goals for 2020.

The Garden is a member of the Global Partnership for Plant Conservation, which also includes Botanic Gardens Conservation International and the Royal Botanic Gardens, Kew.

**The Plant List Featured at Britannica.org**

The Missouri Botanical Garden’s chief information officer, Chuck Miller, and Bob Magill, senior vice president of Science and Conservation, were featured on the Encyclopedia Britannica’s blog (www.britannica.com/blogs) discussing the completion of The Plant List, a comprehensive online database of the names of all known plant species. From the origin of the binomial Latin naming system to the reasons one plant can have multiple names, Miller and Magill explain the origins of the list and why it’s an important step toward a comprehensive world flora, which along with The Plant List is a goal of the Global Strategy for Plant Conservation.

To read the complete Q&A, visit www.britannica.com/blogs/2011/02/the-plant-list-5-questions-chuck-miller-robert-magill-missouri-botanical-garden.

**Little Shop, Big Sale**

On July 15–17, the Little Shop Around the Corner will hold its first “sidewalk sale” in the Orthwein Floral Display Hall in the Ridgway Visitor Center. We are clearing out old inventory to make room for great new donations.

Think you’ve seen everything when you’ve visited the Little Shop? Think again! The shop can only display less than half of its merchandise. Many great bargains will be available.

Don’t miss the member and volunteer preview on Friday, July 15, from 9 a.m. to noon.
Conserving Endangered Species in the Midwest

The Missouri Botanical Garden conducts endangered species conservation and scientific research throughout the world, from the Andes of Peru to the island of Madagascar. It also conducts this work in the Midwestern United States, for example, in a handful of locations outside Nashville in Rutherford County, Tennessee.

There, the Garden’s Center for Conservation and Sustainable Development (CCSD) is studying the tiny Pyne’s ground-plum (*Astragalus bibullatus*), which is endemic to about half a dozen limestone glades in the region. In collaboration

*Top: MBG Curator Dr. Matthew Albrecht counts flowers for a demographic study of Pyne’s ground-plum (*Astragalus bibullatus*). Above: Rare and endangered plants under study by the CCSD include (from left) Geocarpon minimum, Astragalus bibullatus, and Echinacea tennesseensis.*
with state and federal agencies, the CCSD is restoring *Astragalus* populations to habitats in the nearby Stones River National Battlefield and other natural areas.

The region harbors a number of unique species, three of which are federally endangered.

The CCSD works to conserve, manage, and restore this and other native plant populations in the lower Midwest, including several globally endangered species. Thanks to a $318,215 National Leadership Grant from the Institute of Museum and Library Services (IMLS), Dr. Matthew Albrecht, CCSD conservation biologist, will lead a study investigating the ways in which global climate change might alter the extinction risk to plant species and plant populations.

“We’re working with the rarest of rare species in the Midwest,” Albrecht said. Photos of the species studied in the program decorate the walls of his office, and several small pots display living specimens of the plants. “My goal is to get all of the plants we’re studying in my office so that I can show them to visitors.”

The IMLS-funded study will lead to the development of species distribution models to assess the responses of over 100 species to future possible climate change.

“There are many species at risk,” Albrecht said. “How do we prioritize the ones we work on? That’s one of the key questions: to understand where we should be putting our resources. To select the species to be assessed, we’re going to use an index developed by The Nature Conservancy to assign vulnerability rankings to about 150 species in the lower Midwest, to determine how vulnerable they are to future climate change, and also to future land use change.

“Land use change is the No. 1 factor that threatens plant species,” Albrecht said. “That’s what’s happened in Tennessee. All of these species were probably rare to begin with. But since Euro-American settlement, in 200 years about 95 percent of their glade habitat has been lost.”

Another endangered species under study is the aptly named Tinytim (*Geocarpon minimum*), found in sandstone glades in southwestern Missouri and saline barrens in Arkansas, Louisiana, and Texas. From an evolutionary point of view, it’s a unique plant.

“There is nothing else in its genus, and it does not appear to be closely related to any other living plants in its family,” Albrecht said. “That, to me, increases its conservation value as a unique species. It may offer us something to learn about how plants survive over long periods of time: Why is it that *Geocarpon* didn’t go extinct, while other species living nearby during past climate changes did?”

**Providing A Safety Net**

In addition to monitoring plant populations in the field, the CCSD maintains a seed bank of 35 rare and endangered plant species as part of its collaborations with government agencies and its work with the Center for Plant Conservation, a national network of botanical gardens and arboreta dedicated to conserving native plants in the United States. The bank, located in the Garden’s Commerce Bank Center for Science Education, contains thousands of seeds collected over the past two decades, some of which represent populations that have gone extinct in the wild. Seeds are cleaned and dried, then stored in airtight containers at minus 20 degrees Celsius.

The seed bank not only provides a hedge against extinction in the wild but also supplies the specimens for reintroductions such as that being carried out with *Astragalus* in Tennessee.

**How You Can Help**

The CCSD seeks volunteers to help with its temperate plant conservation program. There are a number of opportunities to participate—from counting and processing seeds for long-term storage to entering information in electronic databases. Connect with people and plants close to home, and help protect the nation’s natural heritage. For information, contact Jackie Juras at jackie.juras@mobot.org or (314) 577-5187.
FAMILY TREES
Connect with the forest around you

by Sheila Voss, Vice President of Education
She welcomed me every day after school. Her branched, low-to-the-ground trunks beckoned my siblings and me to climb and explore. She graciously permitted us to string holiday lights around her limbs. Under her canopy, she mothered a lush groundscape of ferns while we hung bird feeders and grade-school art projects on her branches. Her massive, fragrant blooms often graced our kitchen table. And her numerous, big, waxy leaves vexed our neighbor in his pursuit of a debris-free driveway.

The trees among us witness the drama of our lives. Many hold special places in our hearts and minds. But those same trees experience a dramatic and still not fully understood life of their own.

Imagine a giant set of scales. Now imagine all the organisms on Earth on those scales. Trees alone would account for 80 percent of the total. Trees serve as the primary source of fuel, food, clothing, and livelihoods for much of the world’s human population. Today, however, more than 8,000 tree species around the world are at risk of extinction, primarily due to habitat loss, overharvesting of timber, and climate change. Closer to home, once-ubiquitous U.S. trees like American elms, sycamores, and chestnuts have been nearly decimated by invasive pests and diseases. Similar to the story of all at-risk species, the central role trees and forests play in human lives doesn’t reconcile with the human behaviors contributing to their demise. We’ve written famous odes to trees, yet still purchase products made from unsustainably managed forests. We plant saplings yet rip healthy ones out of the ground if they get in our way. The disconnections are numerous.

So, how best to repair this relationship? With 2011 as the official U.N. International Year of Forests, the Missouri Botanical Garden is shining a much-deserved spotlight on trees and the critical roles they play. Throughout the year, we’re inviting the entire St. Louis community to join us: by marveling at Extreme Tree Houses, participating in The Great St. Louis Tree Hunt, or sharpening their tree IQ with year-round tours, classes, workshops, speakers, and films. Throughout it all, we’re adding our voices to the international community as we rally together to rethink our actions and pledge anew to conserve forests close to home and around the world.

That southern magnolia still stands in front of my parents’ house in Florida. While disease has taken a portion of her, she is the matriarch of Darcey Drive—among the biggest, most wide-spreading canopied trees in the neighborhood. She still welcomes me when I visit, now with my little ones in tow. Today, the trees in my Edwardsville home and I are on a first-name basis. Grandmother Willow listens to our hopes and dreams. Arthur Ash serves as third base for pick-up baseball games. Maple gives us a close-up view of the robin’s nest she cradles every year. Pop Pop’s Magnolia reminds us of loved ones we miss. Calling them by personal names, while fully knowing the complexity of the bigger human–tree story, is just one small way my little family is attempting to get back on good terms with these fantastic life forms.

**Take Part in the Great St. Louis Tree Hunt!**

Download a brochure at [www.mobot.org/treemendous](http://www.mobot.org/treemendous)

**The Southern Magnolia still shelters ferns in front of Sheila’s family home.**

**The Great St. Louis Tree Hunt**

*Through September 2011
Presented by Gamma Tree Experts*

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**Take Time to Thank a Tree**

1. **Get to know them.** Whether you’re a tree expert or novice, pledge to increase your tree IQ this year.

2. **Appreciate their unique traits.** Some trees make great shade trees near buildings while others need more room to spread out. Know what you’ve got, and give it everything it needs to survive and thrive.

3. **Nurture the young ones.** Plant young trees during the spring or fall, in your own home landscape or neighborhood.

4. **Care for the old ones.** Mature trees do the heavy lifting in terms of ecosystem services, including cleaning our air, cooling our homes, and managing our storm water runoff. Treat them well—don’t top your trees, and always use a professional arborist for any tree care needs you have.

5. **Visit them often.** Seek out your favorite trees and enjoy life in their presence. Read, relax, play, ponder, create, celebrate—or just take a nap. A shade canopy somewhere is calling your name.

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Summer 2011 Missouri Botanical Garden Bulletin
TREES
AND THE BUTTERFLIES
THAT LOVE THEM

Mention butterfly gardening, and large tree species are probably not the first plants that come to mind. However, many trees are critical host plants for native butterfly caterpillars, which rely on the leaves of these trees for their survival. They also serve as wonderful additions to a large butterfly garden or yard, as many trees also provide nectar to the adult butterflies.

<table>
<thead>
<tr>
<th>TREE</th>
<th>BUTTERFLY</th>
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<tbody>
<tr>
<td>Tulip poplar, <em>Liriodendron tulipifera</em></td>
<td>Tiger Swallowtail</td>
</tr>
<tr>
<td>Black cherry, <em>Prunus serotina</em></td>
<td>Tiger Swallowtail</td>
</tr>
<tr>
<td>Pawpaw, <em>Asimina triloba</em></td>
<td>Zebra Swallowtail</td>
</tr>
<tr>
<td>Sweet bay magnolia, <em>Magnolia virginiana</em></td>
<td>Tiger Swallowtail</td>
</tr>
<tr>
<td>Willow, <em>Salix sp.</em></td>
<td>Red Spotted Purple and Viceroy</td>
</tr>
<tr>
<td>Dogwood, <em>Cornus florida</em></td>
<td>Lycænids</td>
</tr>
<tr>
<td>Redbud, <em>Cercis canadensis</em></td>
<td>Multiple species</td>
</tr>
</tbody>
</table>

Many of these trees can be found at local nurseries and make a lovely and practical addition to the overstory layer of your garden. The Butterfly House has all of these and more in our Butterfly Garden and can provide information on their care. Together with other host plants and the usual cadre of nectar-producing annuals and perennials, these trees help make any butterfly habitat more attractive to our local species.

Hot Bugs!

Being cold blooded has its advantages, especially when it’s 100 degrees outside. Many insects thrive in weather warm enough to make most of us run for shade and a cool drink. Each year in July, we travel to Arizona (as if Missouri were not hot enough!) to collect some of these wonderful specimens for our educational displays at the Butterfly House.

Want to see more hot bugs? Come over to the Butterfly House and view some of these desert-dwelling beauties.
The Missouri Botanical Garden’s east parking lot has a new feature: a bioretention garden. Unlike other planting islands, it is sunken instead of raised and is planted with native species. Its concave shape gathers rain, sediment, and pollutants from the parking lot. The parking surface is sloped toward the garden, and curbing at the garden edge has openings that allow rain to flow in.

Just inside the curb, a special rock filter captures heavy sediment and trash while lighter sediment and pollutants flow into the planting bed. Here a special rain garden soil absorbs water like a sponge while deep native plant roots increase water infiltration and filter pollutants like oil and salt. Flood-tolerant native wetland plants were selected for lower areas, and dry-loving plants for the upper areas. Plant selections are showy, long-lived, and compact. Flood-tolerant species include swamp white oak, river birch, bald cypress, winterberry holly, soft rush, palm sedge, bur sedge, copper iris, great blue lobelia, and orange coneflower. Dry-tolerant species are oak sedge, prairie dropseed, and prairie alumroot.

Bioretention gardens are similar to wetlands because they mimic natural water flow and have wetland plants that are native in the region. Across the country, professionals are using wetland plants native in their states in man-made storm water management practices. Closer to home, the horticulture staff at the Shaw Nature Reserve is collecting and evaluating wetland species in an effort to increase their use and availability.

The lot’s permeable paving allows rainfall to soak through the surface and into the gravel and soil layers below. Combined with bioretention, this captures 100% of an average St. Louis rain event, which is 1.14 inches in a 24-hour period. One inch of rain per acre produces 27,000 gallons of storm water. Bioretention and permeable paving significantly reduce runoff, flash floods, soil erosion, and water pollution.

At the Shaw Nature Reserve, a series of storm water ponds and swales is part of the native landscape surrounding the new Edgar Anderson Center. The Reserve has applied to the U.S. Green Building Council for Silver LEED certification of this building and its associated landscape.

In keeping with a dedication to environmental education and sustainable practices, the new storm water features at the Shaw Nature Reserve and Missouri Botanical Garden serve as demonstrations where visitors can learn about the role native plants play in storm water management.
Tribute to Peter H. Raven  
Sunday, April 17, 2011

The Missouri Botanical Garden’s Board of Trustees honored President Emeritus Peter H. Raven on April 17 by dedicating the Garden library in his name.

The library, one of the most comprehensive collections of botanical literature in the world, is housed in the Monsanto Center. It began during Henry Shaw’s lifetime with 34 books that the Garden founder personally selected. Today it includes more than 200,000 monographs and journals and 6,000 rare books.

More than 300 people attended an event following the dedication, which featured a symphony by New Music Ensemble, a performance group based at the University of Missouri–Columbia and funded by the Sinquefield Charitable Foundation. Jeanne and Rex Sinquefield made the performance possible as a gift to Raven.

The Board of Trustees also created, in honor of Raven’s wife, the Dr. Patricia D. Raven Horticulture Training Award, which will support specialized training for the Garden’s horticultural staff.

The Ravens have devoted a combined 50 years of service to the Garden. Dr. Peter Raven began as director in 1971 and led the Garden’s transformation into a horticultural masterpiece and world-leading institution in science and conservation.

photos by Josh Monken
Founding Gifts to the
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Artist Bryan Haynes presenting the painting that Novus International gave in honor of Dr. Raven
Tributes

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, www.mobot.org.

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Save the Date!
Nordstrom St. Louis Galleria Grand Opening Gala
Wednesday, September 21, 6 to 9 p.m.

Be among the first to step through the door to celebrate and preview the new Nordstrom St. Louis Galleria, before it opens to the public. Enjoy cocktails, dinner and dessert buffets, live entertainment, and incredible shopping. All proceeds will benefit signature projects of the Missouri Botanical Garden, COCA, Contemporary Art Museum St. Louis, and the Saint Louis Art Museum. Complimentary valet parking will be available.

Tickets are $75. For tickets, questions, or special accommodations information, call (314) 577-5152 or visit nordstrom.com/stlouisgalleria.

Create a legacy

Leaving a bequest to the Garden creates a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call (314) 577-9495 for further information, or visit our website at www.mobot.org. Click on Donate, then Planned Giving.
Terrace Café in the Kemper Center for Home Gardening is convenient to the Children’s Garden and features a kid-friendly menu of sandwiches, snacks, pizza, and desserts. Open 10 a.m. to 3 p.m. weekdays and to 4 p.m. on weekends, April through October.

Enjoy a lunch at Terrace Café this summer!

Members’ Entry Court

Bricks dedicated at the Garden, January through March 2011.

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 Bronze Bricks

Kathy J. Judkins
Mr. and Mrs. Thomas V. Judkins, Jr.
John and Kib Michener
Mr. and Mrs. John Michener
Roy and Yoshi Morisaki
Mr. James T. Morisaki

Thelma Walker
Mr. Robert L. Walker
Elvira Raab Weber
Ms. Diane R. Koberna

Engraved Clay Bricks

George Braun and Nancy Riehl
Mr. George Braun and Ms. Nancy Riehl
Carolyn M. Buck
Mrs. Barbara Yafe
Erline Andrews Frese
Mr. John F. Frese, Sr.

Erna Louise Hoffman
Ms. Marilyn A. McDonald
Bessie Irene Huber
Mr. Richard W. Huber
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Mr. and Mrs. John C. Nyren
Casey Elizabeth Wood
Mr. and Mrs. Thomas W. Kopp

Sophia M. Sachs
Butterfly House Tributes & Pavers

To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Pavers dedicated at the Butterfly House, January through March 2011.

Patsy Bell and Jeff Hobson
Mrs. Patsy Bell Hobson
Jane and Robert Bokel
Mrs. Anita Y. Baldwin
Savannah Elizabeth Carmichael
Ms. Judith A. Scott
Ava Nicole Dix
Mr. and Mrs. Douglas Adams
Joseph Jacob Eidelman
Sookey and Marty Ferman
The Forneters
The Goldsteins
Ed Landsis
The Slakmans

Henry Joseph Elton
Ms. Judith A. Scott
Patti and Pat Harty
Ms. Kimberly Haury
Debbi Heffern
Kathy Heffern
Kevin Heffern
Pat Heffern
Karen Kijowski
Mike Piper
Barbara Shumate
Eileen Sypniewski
Kerin Sypniewski
Rich Sypniewski

Chaince Griffin
Rittenhouse
Ms. Jeannine L. Muhan
Eren Grace Robinson
Ms. Judy Spelver
Carol Ann Rohman
Mrs. Anita Y. Baldwin
Jennifer E. Sickbert
Mr. Douglas C. Sickbert
Marvin Taxman
Mr. and Mrs. Paul J. Taxman
Treemendous Gifts

In celebration of the Garden’s yearlong salute to trees, the Garden Gate Shop is filled with a great selection of forest-themed gifts made from and inspired by nature. Members always receive a discount.

Story Time!

Join us for story time and receive 10% off all children’s books on story time day. Gather around the sofa in the book area at 10 a.m. to hear stories from the following great books:

June 4: Water Weed and Wait by Edith Hope Fine and Angela Demos Halpin and The Crows of Pearblossom by Aldous Huxley

July 2: Wangari’s Trees of Peace: A True Story from Africa by Jeanette Winter and Oh No, Monster Tomato! by Jim Helmore and Karen Wall

August 6: Chicken stories, Chicken Bedtime is Really Early by Erica S. Perl and Chicken Big by Keith Graves

All proceeds benefit the Missouri Botanical Garden.
Warm evenings once again will bring hot music to Cohen Amphitheater this summer. Bring a blanket or chairs, and pack a picnic or purchase on site—it’s one of the few times of year picnicking is permitted on Garden grounds! (Leave Fido and the barbecue grill at home, though.) The Children’s Garden remains open with free admission from 5 to 7 p.m.

**Extreme Tree Houses** | Through August 21
Branch out from the ordinary notion of tree houses! Get an up-close look at the winners of our competition beneath the canopy of the Garden’s trees. The exhibit is part of the TREEmendous year at the Garden, a celebration of the U.N. International Year of Forests. Sponsorship support by Ameren Missouri, Gamma Tree Experts, Macy’s, Novus International, and the U.S. Green Building Council–Missouri Gateway Chapter.

**TREEmendous Great St. Louis Tree Hunt** | Through September 30
Presented by Gamma Tree Experts. Find 15 of 30 marked TREEmendous Trees throughout the metro region (including Missouri and Illinois). Download an area guide, clue map, and photo journal at www.mobot.org/treemendous. Bring the completed guide to the Garden’s TREEmendous Interactive Discovery Center to receive a special tree-themed reward. (The Discovery Center is open through January 3, 2012.)

**Illinois Appreciation Week** | June 5 through 11
Illinois residents receive half-price Garden admission (a $4 value), a 10 percent discount in the Garden Gate Shop, and a 20 percent discount off new or gift memberships purchased this week.

**Happy Birthday, Henry!** | Sunday, July 24, 10 a.m. to 3 p.m., Spoehrer Plaza
Celebrate the Garden founder’s 211th birthday by enjoying free admission to the Garden all day, family fun, and old-fashioned entertainment including an organ grinder, silhouette artist, stilt walker, and more.

**Rose Evening**
Monday, June 6, 6 p.m., Gladney and Lehmann Rose Gardens
Take an evening stroll while enjoying the beauty and fragrance of the rose gardens during peak bloom. Free for members and their guests. Appropriate for all ages. Information: (314) 577-5118.

**St. Louis Garden Tour 2011**
Sunday, June 12, 10 a.m. to 4:30 p.m. rain or shine
Tour eight of the loveliest private gardens in St. Louis. Self-guided tickets are $50, Tickets including bus transportation and box lunch are $75. Reservations required; www.mobot.org or (314) 577-9570. Information: (314) 577-9532. Supported by Purus Vodka.

**Young Friends’ Climatron & Cocktails**
Tuesday, June 14, 5:30 to 9 p.m.
Celebrate summer with the Young Friends of the Garden and St. Louis Public Radio. $15 for Garden or St. Louis Public Radio members; $30 nonmembers. Reservations required; www.mobot.org or (314) 577-9570. Information: (314) 577-9532. Supported by Purus Vodka.

**Midsummer Night’s Dance**
Friday, June 17, 6 to 10 p.m., Spink Pavilion
$70 per person; $60 for Garden members. Reservations required; (314) 577-9570 or www.mobot.org/events/midsummer. Information: (314) 577-5154. Supported by Purus Vodka.

**Musical Evening**
Tuesday, June 21, 6 p.m. Spoehrer Plaza
Information: (314) 577-5118.

**Family Picnic**
Friday, July 8, 6 p.m., Cohen Amphitheater
Free for Garden members and their guests. Advance reservations required; (314) 577-9570. Information: (314) 577-9532.

**Corporate Partners Day**
Sunday, August 14
Employees of the Garden’s Corporate Partner firms receive free admission for two adults and all children ages 12 and under to the Garden and Doris I. Schnuck Children’s Garden, and discounts on new or upgraded Garden memberships and on purchases at the Garden Gate Shop. For a list of current Corporate Partner firms, visit www.mobot.org/corporate/current.asp.
**June 2011**

<table>
<thead>
<tr>
<th>Sunday</th>
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<td>*</td>
<td><img src="image" alt="Whitaker Music Festival" /></td>
<td>*</td>
<td>Whitaker Music Festival. 7:30 p.m. CA</td>
<td>Andrea Wulf book signing, 6 p.m. ST</td>
<td>Members Day: Sustainable Gardening, 2 p.m. ST</td>
<td>St. Louis Horticultural Society sale, RVC</td>
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<tr>
<td>Summer Brunch. 10 a.m. $ SP</td>
<td>Members’ Event: Rose Evening, 6 p.m.</td>
<td>Illinois Appreciation Week</td>
<td>Illinois Appreciation Week</td>
<td>Native Plant School: Native Water Gardens and Bird Bubbler Construction, 1 p.m. $ SR, SNR</td>
<td>Illinois Appreciation Week</td>
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<td>St. Louis Garden Tour 2011, 10 a.m. $ SR, RVC</td>
<td>St. Louis Horticultural Society show and sale, RVC</td>
<td>Camp Bugalo: Bugs, 1:30 p.m. $ BH</td>
<td>Whitaker Music Festival. 7:30 p.m. CA</td>
<td>Camp Bugalo: Bugs, 9:30 a.m. $ BH</td>
<td>Midsummer Night’s Dance. 6 p.m. $ SP</td>
<td>Great Green Adventures: 10:30 a.m. and 1:30 p.m. $ CHD</td>
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<tr>
<td>Extreme T ree Houses</td>
<td>FLAG DAY</td>
<td>Young Friends Climatron &amp; Cocktails, 5:30 p.m.</td>
<td>Whitaker Music Festival. 7:30 p.m. CA</td>
<td>Shaw Family Adventures: Tree Cycle, 9:30 a.m. $ SR, SNR</td>
<td>Shaw Family Adventures: Let’s Go Green! 9:30 a.m. $ SR, SNR</td>
<td>First-Time Fishing for Kids. 9 a.m. $ SP, SNR, GGS</td>
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<tr>
<td>FATHER’S DAY</td>
<td>Shaw Family Adventures: Creek Stomp, 9:30 a.m. $ SR, SNR</td>
<td>Members’ Event: Musical Evening, 6 p.m. SP</td>
<td>Whitaker Music Festival. 7:30 p.m. CA</td>
<td>Shaw Family Adventures: Without Batteries, 9:30 a.m. $ SR, SNR</td>
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<td>Isabees Native Bee House trunk show, GGS</td>
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<tr>
<td>Mid America Regional Lily Society show, RVC</td>
<td>Shaw Family Adventures: Wolf Run Lake Exploration, 9:30 a.m. $ SR, SNR</td>
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<td>Shaw Family Adventures: Missouri Critters at the Shaw Nature Reserve, 9:30 a.m. $ SR, SNR</td>
<td>Nigel Mooney Concert/Wine Tasting, 6 p.m. $ RVC</td>
<td>Midnight Insect Safari. 8:30 p.m. $ SNR</td>
<td>Isabees Native Bee House trunk show, GGS</td>
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*average temperature: low 65.9°, high 85.3°
*average precipitation: 3.76 in.*
### July 2011

Average temperature: low 70.6°, high 89.8°
Average precipitation: 3.9 in.

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<td>Whitaker Music Festival. 7:30 p.m. CA</td>
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<td>Members' Family Picnic. 6 p.m. * CA</td>
<td>Insects of the Night. 8:30 p.m. $ BH</td>
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What's in bloom? Download the podcast at www.gardeninghelp.org

Photos by John Smelker, Chris Starbuck, Laila Wesel and courtesy www.mobot.org/gardeninghelp/plantfinder

Butterfly bush, sacred lotus, daylily, coneflower, Victoria lily
### August 2011

Average temperature: low 68.6°, high 87.9°
Average precipitation: 2.98 in.

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**What’s in bloom?**
- Water lily
- Canna
- Petunia
- Gladiolus
- Black-eyed Susan

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**Download the podcast at** [www.gardeninghelp.org](http://www.gardeninghelp.org)

**Online class registration opens.**

**Members’ Day:** Japanese Garden Walking Tour. 10 a.m. JG

**Members-only event**
- Reservations required
- Fee required

**Cooperative Partner Day**
- Orchid Society of Greater St. Louis auction. Noon, RVC
- Greater St. Louis Iris Society sale. RVC
- Summer Brunch. 10 a.m. $ SP

**Corporate Partner Day**
- Orchid Society of Greater St. Louis auction. 1 p.m. RVC
- Lost Ladybugs. 9:30 a.m., 11 a.m. $ BH
- Mushrooms: From Backyard to Table. 1 p.m. $ BH

**Summer Brunch. 10 a.m. $ SP**

**Members’ Day:**
Japaneese Garden Walking Tour. 10 a.m. JG

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Japanese Garden Walking Tour. 10 a.m. JG

**Members-only event**
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Japanese Garden Walking Tour. 10 a.m. JG

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Celebrate the history, culture, and people of Japan at the Garden’s annual festival, one of the largest and oldest of its kind in the United States. Avoid the lines and buy your tickets online at www.mobot.org/tickets.

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SAVE THE DATE

Japanese Festival

Labor Day weekend, September 3–5