

CLASSES

FOR ADULTS • YOUTH & FAMILY

FALL • WINTER 2013–2014

SEPTEMBER–FEBRUARY



MISSOURI BOTANICAL GARDEN



SHAW NATURE RESERVE



Offered for a diversity of learners, from young explorers to budding enthusiasts to skilled gardeners, our courses have been expertly designed to educate, inspire, and enrich. Most importantly, they are intended to strengthen the connections each of us has with the natural world and all its wonders. Come grow with us!

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And you thought you were just signing up for a fun class.

Whether you visit our family of Saint Louis area attractions with family and friends, enjoy membership in our organization, take one of our classes, or experience a special event, you're helping save at-risk species and protect habitats close to home and around the world. On behalf of the Missouri Botanical Garden and our one shared planet...**thank you.**

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

—mission of the Missouri Botanical Garden

Site codes: **MBG**—Missouri Botanical Garden **SNR**—Shaw Nature Reserve
BH—Sophia M. Sachs Butterfly House
CBEC—Commerce Bank Center for Science Education

Cover photo by Tom Incrocci

ADULT CLASSES

Note: Shaw Nature Reserve pass holders receive member rate for all Reserve classes.



Food brings us all together. It provides nourishment; it fuels and is fueled by our creativity; and it is shared by us all, in many settings, and at many times. Of course plants are central to our food supply, both directly and indirectly. Simply said, without plants, there is no food.

New insights and discoveries about the role of plants as food are made daily. Of the 400,000 known plant species, more than 20,000 are edible, yet fewer than 20 crop species provide 90% of our food today. The history of our country—and of the world—has both shaped and been shaped by the plants we eat: wheat, corn, potatoes, coffee, rice, and so on. Behind each of the plants we use for food, there is a rich and fascinating story to be told.

At the Garden, we educate and inspire people to appreciate plants as food from botanical, nutritional, historical, geographical, and cultural perspectives. As a leader in sustainability, the Garden also educates and inspires people to grow more of their own food and become wiser consumers about the food they eat. Globally, the Garden works with communities to document traditional knowledge about food plants and the methods used to grow, harvest, and use them while also promoting and supporting their conservation and the development of more sustainable practices and livelihoods.

Throughout this year and going forward, we invite you to explore the stories of your food, from the ways they are grown, to the ways they are prepared and enjoyed, by whom, and in what circumstances. Celebrate and conserve the plants of the world that nourish us. We hope you will think about and appreciate the plants on your plate in new ways and become inspired to taste, plant, and grow.

For more information go to www.Missouribotanicalgarden.org.

➡ **All cooking classes** are demonstration only unless otherwise noted. Chefs serve sample-sized portions of their recipes.

LIVING LOCAL

Delicious Fruity Desserts (MBG) NEW!

New to the cooking roster this fall is Tori McCarty, a Kakao chocolatier and home-baking maniac. She will dazzle us with an apple pie that features the most insanely good pie crust in the world. As if that isn't enough, she will share her special pumpkin donut recipe and demonstrate how to make lemon meringue cupcakes. NOTE: A blow-torch is involved! How can you resist??

Saturday, October 12
9:30 to 11:30 a.m.

\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Tori McCarty

Cooking with Urban Eats Café (MBG) NEW!

Join co-owner Caya Aufiero as she cooks three of the café's signature dishes: roasted rosemary sweet potatoes, low-carb spinach quiche, and a savory pumpkin soup with a popcorn topping that will be used to show how most recipes can be modified to fit multiple dietary requirements. Urban Eats' mission is to revitalize its south St. Louis neighborhood and build community through wholesome, delicious food and beverages, and art and music.

Wednesday, October 16
6:30 to 8:30 p.m.

\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Caya Aufiero

**Get to Know Your Favorite Food: Tea (CBEC)**

After water, tea is the most popular non-alcoholic beverage in the world. Green, black, oolong, white, and herbal—there are so many options out there. How does a person know where to start? Enter Kateri Meyer of Traveling Tea, who will help us unravel this mystery. She'll discuss origins and production of teas and how to prepare them for optimal flavor. She'll even talk about tea as food! And, as always, samples and handouts will be provided. Price is per person.

Tuesday, November 5
7 to 8:30 p.m.
\$25 members; \$30 nonmembers
Commerce Bank Center for Science
Education—Room 126
Kateri Meyer, Traveling Tea

Get to Know Your Favorite Food: Chocolate—Field Trip to Kakao Chocolate (off-site)

Discover not only where your chocolate comes from, but see (and smell) the actual process firsthand! We'll meet at Kakao Chocolate where head chocolatier Brian Pelletier will discuss the current practices and state of the chocolate industry, particularly relating to sustainability. Afterwards, we'll tour the shop and finish with some hands-on chocolate fun!

Thursday, January 30
7 to 8:30 p.m.
\$25 members; \$30 nonmembers
Kakao Chocolate, 7272 Manchester
Road, Maplewood, MO 63143
Brian Pelletier, Kakao Chocolate

PLANT-INSPIRED MEALS
AND IDEAS**Sharpen Your Knife Skills (MBG)**

Learn how efficient cutting techniques and knife use can make the art of food preparation safer and more enjoyable. The instructors will cover a range of topics including knife selection, care, sharpening, cutting techniques, and safety. Ample time will be allowed for you to practice the skills of slicing, dicing, julienning, chopping, and mincing. Bring a paring knife (if you have one) and an apron, if you wish.

Monday, September 23
6:30 to 9 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Linda Whitten and Glenn Kopp

Cooking with Quinoa (MBG) NEW!

What is quinoa, how do you cook it, and how do you pronounce it? (KEEN-wah.) This much-underused seed or grain is a staple food in the Andes and can add interest and protein to your everyday meals. It's wheat-free, gluten-free, and a nice alternative to starches in your menus. Learn all about quinoa and sample caramelized fennel and roasted butternut squash quinoa salad, toasted quinoa with fresh pork sausage and roasted pepper chili (a vegetarian version will be available for tasting), savory root vegetable hash with baked fall apples over quinoa, and fresh goat cheese cranberry pecan quinoa pudding.

Wednesday, October 2
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Lana Shepek

**The Joy of Herbs (MBG) NEW!**

Join the St. Louis Herb Society as they introduce us to some of their favorite herbs and share tips for harvesting and drying these timeless plants. In addition, they'll tell us which herbs can be frozen and what some of the best fall-winter uses are for those scented beauties. Also, expect some herb-inspired Thanksgiving recipes and the demonstration of how to create an herb-inspired wreath. This is a class not to be missed!

Thursday, October 10
9:30 a.m. to noon
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
St. Louis Herb Society

Chocolate Therapy (MBG)

Don't ever feel guilty about eating chocolate! Learn the health benefits of chocolate, how to enjoy this sweet treat without all the guilt, what chocolate says about your personality, and how to use chocolate to relax with "chocolate meditation." We'll end our evening sampling chocolate and pairing it with a variety of wines. Designed only for adults ages 21 and older.

Tuesday, October 15
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Kim Petzing and Brian Pelletier



Cooking with Hidden Vegetables... (MBG) **NEW!**

...and other healthy fruits and ingredients to turn brownies, cookies, spaghetti sauce, and more into nutrient-rich, lower-calorie works of culinary art. What your kids don't know won't hurt them, and in fact, the entire family will be eating healthier when pureed spinach, cauliflower, sweet potatoes, and black beans are "hidden" in a variety of sweet and savory dishes. Bon appétit!

Thursday, October 24
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Diana Smith

Appetizers for the Holidays (MBG) **NEW!**

Join chef Vicki Bensinger to learn to make appetizers for any occasion. Watch Vicki as she makes Missouri candied pecans (a not-to-be-missed favorite), potstickers with soy/ginger dipping sauce, summer rolls with thai sauce, and shitake and goat cheese crostini. Try them all!

Tuesday, November 5
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Vicki Bensinger

Favorite Wine and Cheese Pairings (MBG) **NEW!**

Just in time for the holidays, here is a chance to take your host or hostess skills to the next level. Join sommelier, educator, writer, Chaumette Winery marketing director, and all-around wine enthusiast Jennifer Johnson as she covers the secrets to successful wine and cheese pairings in this class where snacking and wine sampling are part of the curriculum. Make it a date night or grab a girlfriend—this class has "you" written all over it.

Tuesday, November 12
6:30 to 8:30 p.m.
\$48 members; \$54 nonmembers
Center for Home Gardening Classroom
Jennifer Johnson

Gifts from the Kitchen (MBG) **NEW!**

Holiday parties, gift exchanges, hostess gifts—it's the season of giving (and receiving), and what better way to show someone you care than by making a gift yourself? In Diana Smith's new "Gifts from the Kitchen" class, she'll show us how to make homemade vanilla extract with bourbon, toffee-coated saltine crackers (an out-of-the-ordinary combo, but absolutely delicious!), lavender sea salt scrub, honeycomb candy, and more. Get a head start on those gifts!

Wednesday, November 13
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Diana Smith

Hearty Winter Soups (MBG) **NEW!**

What better time to learn how to make some delicious homemade soup than the cold (and soon-to-get colder) winter months? Our favorite English chef, Jane Muscroft, is going to show us how to make her famous beef and barley, spicy butternut squash, and minestrone soups. And Jane always serves soup accompanied by warm, homemade bread! So grab a spoon and join us for a perfect winter cooking class that will keep your family warm and full.

Thursday, November 14
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Jane Muscroft

Holiday English Tea (MBG)

Travel to England without leaving St. Louis with the tastes and traditions of a true English tea. Try real clotted cream and homemade scones fresh from the oven, along with other recipes featuring foods and flavors of the holiday season. You will sample spiced Eccles cakes with brandy butter and fresh cream horns, all served with a good quality loose tea. Stroll the English Woodland Garden afterwards to complete the experience!

Tuesday, December 3
or Friday, December 6
10 a.m. to noon
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Jane Muscroft

CULTURAL INSPIRATIONS

Chinese Appetizer and Main Dish Favorites (MBG) **NEW!**

Chef Theresa Liu will demonstrate how to cook popular Chinese appetizers spring rolls and pot stickers, along with main courses moo shu pork and hot and spicy kung pao chicken. Theresa is a cooking class favorite because of her delightful personality and the authentic touch her Chinese roots bring to her delicious food!

Wednesday, October 23
6:30 to 8:30 p.m.
\$37 members; \$43 nonmembers
Center for Home Gardening Classroom
Theresa Liu



GARDENING AND LANDSCAPING

EDIBLE GARDENING

Harvest and Plan: Fall Vegetable Tour (MBG) **NEW!**

The season is not over yet! There is still so much to do in your vegetable garden: harvest up to and beyond the frost date, planning for the spring, and soil preparation, including composting and bed preparation. You will take a guided tour of the Kemper vegetable garden and learn what works and what doesn't directly from the horticulturists who care for it.

Monday, September 16
6 to 8 p.m.

\$25 members; \$30 nonmembers
Center for Home Gardening Classroom
Elizabeth Spiegel and Cheryl Rafert

NEW Winterizing Your Roses and Lessons Learned (MBG)

Join Garden rosarian David Gunn as he talks about how to prep your roses for winter: Do Knock-Out Roses need winterizing? What do you do with climbers? Do you cut back in fall or spring? Gardeners want to know! David will also discuss the successes and lessons learned in the Garden's newly renovated rose beds. Take advantage of this rare chance to pick the rosarian's brain.

Tuesday, September 24
6:30 to 9:30 p.m.

\$38 members; \$44 nonmembers
Missouri Room
David Gunn

Strawberries, Blueberries, and Raspberries, Really? (MBG)

Grow and harvest sweet strawberries, tasty blueberries, and succulent raspberries in your own back yard. This class is designed to teach you the basics, including establishing plants, pruning, and common pests. Elizabeth Wahle will get you started with these small fruits plus help you avoid common beginner mistakes.

Monday, September 30
7 to 9 p.m.

\$25 members; \$30 nonmembers
Botanical Room
Elizabeth Wahle

Best Indoor Fruits for St. Louis (MBG)

It's cool outside but warm in the Linnean and Temperate Houses. Learn which edible fruits—including oranges, lemons, and figs—grow best here and in your home. Mark Zigrang will guide you on a walking tour of both conservatories and cover what soils, fertilizers, light exposure, and pest control he uses to keep these plants growing well and producing wonderful fruit.

Saturday, November 2
9:30 to 11:30 a.m.

\$25 members; \$30 nonmembers
Botanical Room
Mark Zigrang



Organic Heirloom Vegetables (MBG)

Heirloom vegetables are open-pollinated, non-hybrid plants that have been around for generations. Discover how adding heirloom vegetables to your garden can reward you with flavorful and colorful new produce. Learn how to select, grow using organic methods, and harvest heirloom vegetables. Seed saving will be included. You will plant heirloom seeds in a small pot, which you can take home for transplanting in the spring.

Saturday, February 22
10 a.m. to noon

\$30 members; \$36 nonmembers
Botanical Room
Cheryl Rafert

GARDENING BEST PRACTICES

Healing with Native Plants (MBG)

You may look at a wild field in Missouri and see beautiful wildflowers or pesky weeds, but American Indians and pioneers in this area saw a rich pharmacopeia of medicinal plants and used the local flora to treat a wide variety of ailments. Take a tour through our Sacred Seeds Garden, which includes local tall grass prairie and shade plants, and enjoy these plants in their natural habitat. See demonstrations of medicinal harvesting, learn traditional techniques for transforming local plants into medicinal remedies, and celebrate the importance of the local Missouri flora to our Midwestern ancestors.

Saturday, September 7
10 a.m. to noon

\$35 members; \$42 nonmembers
Center for Home Gardening Classroom
Ashley Glenn



Terrific Trees: From Selection to Pruning and More (MBG) **NEW!**

Trees can be beautiful, long-lived investments to any home if properly selected and maintained. This class will discuss how to choose the right tree for the right spot, good traits to look for when you're making your purchase, as well as proper planting and short-term maintenance to develop a strong, healthy tree for years to come. Also includes an outdoor pruning demonstration.

Tuesday, September 17
5 to 7 p.m.

\$25 members; \$30 nonmembers
Botanical Room
Teresa Pafford

Easy Tree I.D. for Beginners (MBG)

Do you ever wonder about the trees in your neighborhood? Can you tell the difference between a native tree and an invasive thug? Maybe it's time to take a beginner's tree I.D. class! Learn about the trees that make up your world. Join certified arborist Mike Walsh, a forester and nurseryman with Forest ReLeaf of Missouri, as he eases students into this multi-day learning experience through a PowerPoint presentation and lots of time on the Garden grounds. What better place to learn about trees than the best garden in the world?

3 Tuesdays: September 17,
24, and October 1

6 to 8 p.m.
\$75 members; \$90 nonmembers
Center for Home Gardening Classroom
Mike Walsh

Houseplant Basics (MBG) **NEW!**

As we begin preparing for the long, gray winter ahead, why not enjoy some greenery indoors? Anyone can grow houseplants, even the busiest, laziest, and least-green-thumbed among us! In this class, self-professed neglectful gardener Caroline Bernard will teach you how to think like a houseplant and meet their basic needs with minimal effort. Learn how to determine specific growing conditions, choose the right plants, understand what their behavior is trying to tell you, and keep them thriving all year long.

Wednesday, October 9

6:30 to 8:30 p.m.

\$25 members; \$30 nonmembers

Center for Home Gardening Classroom

Caroline Bernard

Best Trees and Shrubs for Fall Color (MBG) **NEW!**

Sometimes a tree or shrub's most heart-stopping display is in the fall. Join the Garden's horticulturist Nathan Urben as he introduces you to his favorite "woodies" and their fireworks display. You'll start off in the classroom, then, weather permitting, take a walk through the Garden to see some specimens in person.

Saturday, October 19

9:30 to 11:30 a.m.

\$25 members; \$30 nonmembers

Center for Home Gardening Classroom

Nathan Urben



Composting Expanded: Vermicomposting (CBEC)

Familiar with composting basics? Wondering what it takes to build your own worm farm? Join us in this workshop about vermicomposting to learn how worms can help turn your kitchen scraps into nutritious fertilizer for your garden! Participants build and take home their own working worm bin.

Tuesday, October 22

7 to 8:30 p.m.

\$45 members; \$54 nonmembers

Commerce Bank Center for Science

Education-Room-Room 126

Katherine Golden

Growing Orchids at Home (MBG) (BH) **NEW!**

Do you have an orchid that you don't know how to care for? Or have you always wanted to grow orchids, but don't know where to start? Then this class is for you. Babs Wagner, of the Garden's orchid greenhouse, will describe the basics of orchid care, including nutritional and environmental needs of orchids, potting, and pruning. The course is appropriate for both novices and enthusiasts.

Tuesday, October 8

7 to 9 p.m.

\$25 members; \$30 nonmembers

Missouri Botanical Garden

Botanical Room

Babs Wagner

or

Wednesday, October 23

7 to 9 p.m.

\$25 members; \$30 nonmembers

Butterfly House

Lopata Learning Lab

Babs Wagner

LANDSCAPE DESIGN AND IDEAS

Become a Great Gardener Series (MBG)

Classes for Beginning Gardeners

This series of classes is designed for beginners just getting into gardening. Join others as you get answers to those questions that you don't want to ask that "know-it-all" advanced gardener over the fence! Price is per class.

7 to 9 p.m.

\$25 members; \$30 nonmembers

Botanical Room

Cindy Gilberg

Autumn Activities: Moving, Dividing, and Planting

As the weather cools, fall is great time to do many things around the garden and get ready for winter. Cindy will go over what tasks are best to do in early and late fall and what should wait until spring. A great class to become a year-round gardener!

Thursday, September 12

Landscape Your 'Green' Garden

Green isn't just the color of grass these days! Join us as we dig deeper into a variety of ideas that you can easily incorporate into your design. This class will cover how to design a biologically diverse habitat, including plants for birds and bees, right plant for right place, and alternatives to lawns to cut down on mowing and labor. Cindy shares her amazing wealth of knowledge on the subject and invites you to have a "greener" garden this fall.

Thursday, September 19

Designing with Perennials

This popular class is dedicated to designing with the best perennials to grow in St. Louis. Learn some great color and texture combinations that your neighbors will envy. In honor of year of food, Cindy will also include great perennial herbs and edibles.

Thursday, October 17

Natives for Small Spaces

Missouri native plants are very hot in nurseries, but can you gracefully plant them in a small yard? Cindy Gilberg will highlight plants that grow well in smaller urban settings for both sun and shade. She will cover grasses, perennials, shrubs, and small trees.

Thursday, October 24

Spring Bulbs 101 (MBG) **NEW!**

Ever wonder how the Garden gets its spring bulbs to look so darn good? Learn from bulb expert Sophia Warsh which bulbs work best in St. Louis, how deep to plant and when, and see a demonstration involving soil preparation and different ways to dig—trenching vs. tilling. Sophia will also talk about bulb companion planting and lessons learned from the Garden. And attendees won't go home empty-handed—each person will receive some “MBG approved” bulbs that are sure to get you motivated in your fall garden.

Saturday, November 9
9:30 to 11:30 a.m.

\$40 members; \$48 nonmembers
Beaumont Room
Sophia Warsh

Explore the Magic of Witch Hazels (MBG)

You won't find many shrubs in Missouri that flower when it's snowing, but that's just one of the beautiful aspects of witch hazel, or Hamamelis. There are many native varieties and unusual species in the Garden's extensive collection. Learn about the history and medicinal uses of this unique shrub as horticulturist Sara Murphy gives you some background information in the classroom and then takes you out into the Garden so you can see them in their full glory.

Saturday, February 22
10 a.m. to noon

\$25 members; \$30 nonmembers
Missouri Room
Sara Murphy

Home Landscape Design (MBG)

This course is specifically designed to help gardeners transform their home landscapes into a natural oasis that's both beautiful and beneficial for plants, people, and the environment. Beginning with the basics of design, you will learn about front plantings, private areas, energy conservation, and plant selection for your home. You will be encouraged to develop a landscape plan during class for your own yard or garden, and study plant material independently. Some gardening experience recommended. You are invited to bring photos of your yard to the first session. Class supplies will also be discussed.

6 Wednesdays: September 11, 18, 25,
October 2, 9, 16

7 to 9 p.m.

\$144 members; \$173 nonmembers

Botanical Room

Randy Mardis

or

6 Tuesdays: October 15, 22, 29; November
5, 12, 19

7 to 9 p.m.

\$144 members; \$173 nonmembers

Missouri Room

John Bell



Native Plant School (SNR)

Native Plant School is a year-round series of indoor/outdoor classes in the Whitmire Wildflower Garden at Shaw Nature Reserve. These classes cover various aspects of native landscaping. Please bring your questions, comments, drawings, and plant specimens. Participation from the audience is encouraged. Price is per class. Native Plant School at Shaw Nature Reserve is underwritten by Grow Native! and Wild Ones Natural Landscapers.

1 to 4 p.m.

\$12 members; \$15 nonmembers

Carriage House

Scott Woodbury

Low-maintenance Ground Cover Gardening

Thursday, October 10

Pruning, Training, and Transplanting Trees, Shrubs, and Vines

Thursday, November 7

RainScaping Fundamentals

What do rock weirs, compost filter socks, bioswales, and rain barrels have in common? Find out just what, exactly, the term “rainscaping” refers to, why it's important in the St. Louis region, and the basics of what you can do at your own home. Learn about the numerous resources at your fingertips!

Thursday, February 6

1 to 3 p.m.

or

Tuesday, November 19

7 to 9 p.m.

Missouri Botanical Garden

Commerce Bank Center for Science Education-Room-Room 125

Karla Wilson

Blooms for All Seasons (MBG)

Fill your garden with color throughout the year with perennials and shrubs. Dianne O'Connell will share tried and true combinations that will layer blooms throughout the season and create interest with height and texture. Plan your garden so you have flowers bursting with life all year long.

Tuesday, September 10

7 to 9 p.m.

\$25 members; \$30 nonmembers

Garden Room

Dianne O'Connell

Gorgeous Gardens on the Cheap and Green (MBG) **NEW!**

From utilitarian to artistic and creative practices, learn how to translate some of the best green methods into your gardening at home. Lesley will tell you the best green secrets and inexpensive ideas that you can do this fall and next spring to have the best-looking garden around.

Thursday, September 12

7 to 9 p.m.

\$25 members; \$30 nonmembers

Missouri Room

Lesley Joplin

Renovate and Rescue Your Cool-Season Lawn (MBG)

Fall is a great time to “fix” cool-season lawns that are struggling—maybe they’re thin and worn or have more weeds than grass. Learn how to solve these problems through correct soil preparation, seeding, watering, aeration, fertilizing, and weed control. After this class, you’ll be on your way to a healthier, more beautiful lawn.

Saturday, September 14
10 a.m. to noon

\$25 members; \$30 nonmembers
Botanical Room
Glenn Kraemer

Move over Mums: **NEW!** New Fall Ideas (MBG)

Tired of looking at empty beds all fall and winter? Learn some of the best annuals and perennials to plant for fall and winter interest. Lesley will guide you through wonderful ideas from the Garden and beyond.

Monday, September 23
6 to 8 p.m.

\$25 members; \$30 nonmembers
Botanical Room
Lesley Joplin

Gardening Under Trees (MBG)

Do you have trees in your yard you would like to landscape under? This class will address many issues that you may encounter. With many years of landscaping experience, Dianne will talk about which trees can and cannot be planted under and make suggestions for plants that thrive under trees.

Tuesday, September 24
7 to 9 p.m.

\$25 members; \$30 nonmembers
Botanical Room
Dianne O’Connell



To register go to www.mobot.org/classes

GUIDED WALKS AND TOURS

Don’t Kill Your Perennials (MBG)

Some information about perennial maintenance in books is inappropriate for the Midwest perennial garden. In this two-hour walking tour through the Center for Home Gardening, June Hutson will highlight what to do and what not to do in the fall season for the most commonly grown perennials. Tips will include time of pruning, common mistakes, mulching, and getting ready for the roller coaster that a St. Louis winter is. You will see firsthand how to take care of perennials from one of our area’s top perennial experts.

Monday, September 9
5:30 to 7:30 p.m.

\$25 members; \$30 nonmembers
Center for Home Gardening—Upper Level
June Hutson

Behind the Scenes: Japanese Garden (MBG)

Experience this popular walking tour after hours in the Japanese Garden with senior horticulturist Greg Cadice and gain a new appreciation for Seiwa-en, the “garden of pure, clear harmony and peace.” Greg will highlight features of this world-famous garden including scenic vistas, Teahouse Island, and how the horticulture staff and volunteers create an overall feeling of serenity in this special place. Please wear comfortable shoes for this two-mile-long, continuous walk.

Tuesday, September 17
5 to 7 p.m.

\$25 members; \$30 nonmembers
Meet at Ridgway Ticket Counter
Greg Cadice

To register go to www.mobot.org/classes

Sacred Seeds Medicinal Walking Tour (MBG)

Take a guided tour through the Sacred Seeds Sanctuary, a garden showcasing American Indian medicinal plants in their natural habitat. Your guide, a curator of ethnobotany at the Missouri Botanical Garden, will explain the rich cultural history of American Indians in the Missouri region, their traditions of medicinal plant use, and the legacy that these cultures have left on medicine today.

Saturday, September 21
10 to 11:30 a.m.

\$19 members; \$23 nonmembers
Meet at Ridgway Ticket Counter
Wendy Applequist

Behind the Scenes: Fall Flowers and More Walk (MBG)

Join horticulturist Dana Rizzo as she tours the Center Home Gardening’s demonstration areas and see firsthand how to include the best fall color and texture plants in your garden. Learn how to tweak your landscape with helpful hints, color combinations, and fun ideas to put in your containers and beds in this outdoor walking class.

Thursday, September 26
5:30 to 7 p.m.

\$19 members; \$23 nonmembers
Center for Home Gardening Classroom—
Upper Level
Dana Rizzo



To register go to www.mobot.org/classes

Historic and Important Trees of the Garden (MBG)

Over the past few years, Alan Stentz has been researching and writing descriptions of historic and important trees in the Garden for our online Plant Finder. In this continuous walk he will point out those trees which are believed to be planted during the life of Henry Shaw and provide a wealth of fascinating facts about the origins of several of the interesting and important trees growing in the Garden.

Tuesday, October 8

4 to 6 p.m.

\$25 members; \$30 nonmembers

Meet at Ridgway Ticket Counter

Alan Stentz

Japanese Maples Walk (MBG)

Japanese maples are exquisite small trees that can beautify any garden. During this on-grounds walking tour, you will see recommended cultivars for the St. Louis area planted throughout the Garden and learn about their many desirable characteristics, culture, and pruning techniques.

Saturday, October 26

9 to 11 a.m.

\$25 members; \$30 nonmembers

Meet at Ridgway Ticket Counter

Teresa Pafford



Full Moon Night Hike for Adults (SNR)

Join us for this two-hour stroll through evening and into the early night. The sun will have set before the hike starts, but the full moon should provide all the light needed to enjoy the sights, sounds, and smells of a winter evening at Shaw Nature Reserve. Participants will learn a bit about tallgrass prairies, woodlands, and glades as the hike passes through these ecosystems. All else excluded, the sight of a full moon rising over acres of tallgrass prairie makes the journey to the Reserve worth the time spent. This hike will cover roughly two miles on trails over uneven ground.

Wednesday, January 15

7 to 9 p.m.

\$5 members; \$8 nonmembers

Meet at the SNR Visitor's Center

Stephen Bean



Behind the Scenes: Orchid Show (MBG)

Don't miss this opportunity to view the orchids in the show with horticulturist Babs Wagner. Get insight into how the orchids are grown and learn helpful tips on how to grow your own orchids. Sign up early! Space is very limited.

Tuesday, February 18

5 to 6:30 p.m.

\$25 members; \$30 nonmembers

Meet at Ridgway Ticket Counter

Babs Wagner

Behind the Scenes: **NEW!** MBG's Aroid Collection (MBG)

Fall is a great time to enjoy the Aroid family of plants, including philodendron, colocasia, and dieffenbachia. Missouri Botanical Garden is fortunate to have one of the best Aroid collections in North America, including not one, but TWO Corpse Flower specimens that bloomed with great fanfare (and smell) in 2012. Take a tour of this rarely seen collection and hear stories about their unusual blooms, where they were collected, and what aroids are available to the average homeowner or avid collector.

Saturday, October 19

9:30 to 11:30 a.m.

\$25 members; \$30 nonmembers

Meet at Ridgway Ticket Counter

Emily Colletti

ARTS AND CRAFTS

PAINTING AND DRAWING

A Palette of Pastels (MBG)

Back by popular demand! Enjoy applying lush colors of fall to paper in this hands-on studio class. Pastels, which are pure pigment held together with a binder, let you draw with color at your fingertips. This medium is immediate, forgiving, and exciting. You will learn basic techniques through material demonstrations, as well as individual instruction using still-life of fresh fruit and blooming plants. Pastels supplied.

8 Wednesdays: September 4, 11, 18, 25;

October 2, 9, 16, 23

9:30 a.m. to noon

\$192 members; \$230 nonmembers

Center for Home Gardening Classroom

Jaclyn Lawson

Exploring Monet's Love: Oil Painting (MBG)

Oil painting is a beautiful and forgiving medium for artist all over the world. Whether you are an experienced oil painter or just getting started, this class is for you. You will study value, hues, and composition through classic still-lives of florals, fruits, vegetables, or blooming plants in this studio class. Tito Gay will begin each class with a short demonstration and help you grow your art through individual and group critiques. A supply list will be included with your registration.

8 Thursdays: September 5, 12, 19, 26;

October 17, 24, 31; November 7 (No class

October 3 and 10)

9:30 a.m. to noon

\$180 members; \$216 nonmembers

Beaumont Room

Tito Gay

Watercolor: Beyond the Basics (MBG)

The class is designed for the experienced watercolorist who seeks to master the medium by exploring new techniques, materials, and personal artistic expression. Through the manipulation of the elements and principles of design you will learn to open your "artist" eye to visualize possibilities and creative interpretations in your own art work. No basic skills taught. Watercolor experience required.

8 Fridays: September 6, 13, 20, 27; October 11, 18, 25; November 1 (No class October 4)
9:30 a.m. to noon
\$180 members; \$216 nonmembers
Center for Home Gardening Classroom
Judy Seyfert

Watercolor: Painting with an Artist's Eye (MBG)

It is never enough to just copy the images around us. To make a painting have impact, artists must enhance the ordinary to make it extraordinary. Through design and expressive use of color, Judy will show you how to open your "artist" eye to visualize possibilities and creative interpretations in your own art work. Students should have basic knowledge of watercolor as basic skills will not be taught.

6 Mondays: September 9, 16, 23, 30; October 7, 14
6:30 to 9 p.m.
\$135 members; \$162 nonmembers
Missouri Room
Judy Seyfert

The Garden in Watercolor (MBG)

Capture the beauty of the Garden in watercolor while you learn new techniques and composition skills outdoors. Through demonstrations and critiques, you will receive individual and group instruction. Beginning and advanced students are welcome. Designed for adults only. A supply list will be included with your registration.

6 Tuesdays: September 24; October 1, 8, 15, 22, 29
9:30 a.m. to noon
\$135 members; \$162 nonmembers
Missouri Room
Mary Dee Schmidt

Watercolor: The Colors of Fall (MBG)

Translate the beauty of fall into vibrant, colorful paintings. Whether your inspiration is the Garden or your own personal experiences, you will learn to paint this wonderful time of year into a creative statement. Watercolor techniques, from simple to complex, as well as composition and design will be taught. Studio class. Designed for beginning to intermediate students.

6 Saturdays: October 19, 26; November 2, 9, 16, 23
9:30 a.m. to noon
\$135 members; \$162 nonmembers
Missouri Room
Judy Seyfert



All Mixed Up: Winter Drawing (MBG) **NEW!**

Warm up this winter with a fun look at all types of drawing medium. Spice up your drawing by using different types of techniques including graphite, colored pencils, pastel, ink, charcoal, water-soluble pencils, and more on paper. Jaclyn will demonstrate several techniques through the series, encouraging you to try new mediums and utilizing both still life and photographs as subjects. Don't let your drawing skills hibernate this winter.

6 Wednesdays: January 8, 15, 22, 29; February 5, 12 (Snow dates: February 19, 26)
10 a.m. to 12:30 p.m.
\$135 members; \$162 nonmembers
Garden Room
Jaclyn Lawson

Watercolor Unleashed: Creativity (MBG)

Finding your artistic muse and releasing your creativity is a joy of discovery. But creativity has no formula or recipe; it can only be learned by "doing." This class is a series of creative challenges inspired by the Garden to help you see what you can learn from yourself. Designed for intermediate to advanced students.

4 Fridays: January 10, 17, 24, 31 (Snow dates: February 7, 14)
10 a.m. to 1 p.m.
\$124 members; \$146 nonmembers
Commerce Bank Center for Science Education- Room 126
Judy Seyfert

PHOTOGRAPHY

**SHAW PHOTOGRAPHY
SERIES: FINDING YOUR
FOCUS**
**An Evening with Jim
Brandenburg (MBG) NEW!**

Join us for an unforgettable evening featuring the exquisite nature photography of Minnesota native and internationally renowned photographer and filmmaker Jim Brandenburg. Enjoy his stories of over 30 years of capturing the beauty of nature as he traveled the globe. His many years with National Geographic resulted in 23 magazine stories, several television features, and many National Geographic books. He has been published in numerous publications including *Time*, *Life*, *Smithsonian*, *National Wildlife*, and *BBC Wildlife*. Mr. Brandenburg has also been featured on all of the major television and radio networks including CBS's *Sunday Morning with Charles Kuralt*, *Dateline NBC*, and *Animal Planet*.

Friday, September 20
7 to 9 p.m.

\$20 members; \$24 nonmembers
Shoenberg Theater
Jim Brandenburg

**How to Make Better
Images as You Travel
Around the Globe (SNR)**

For all levels. Join photographer and world voyager Stewart Halperin for a full day focused on making better images while you travel. Stewart will cover everything from preparation before your trip to the mindful composition of images while you are on the road. He will share his knowledge from 45 years of moving about the world with his cameras, visiting six continents and over 90 countries, photographing in some of the most remote corners of the world as well as many of its major cities. Must have working knowledge of personal camera. Lunch included.

Saturday, September 28
9 a.m. to 4 p.m.
\$150 members; \$180 nonmembers
Adlyne Freund Center
Stewart Halperin


**The Essence of Street
Photography (SNR)**

For all levels. Join internationally recognized photographer Todd Weinstein for this unique opportunity to examine and experiment with street photography in a small town. After an introduction to the historical and contemporary context of street photography, participants will spend the late morning and early afternoon in nearby Washington to photograph on the streets, including a stop for lunch. The group will return to the Reserve mid-afternoon to review the experience and address aesthetic issues, such as the construction of an image, paying particular attention to the camera's frame, and how to best exploit the meaning inherent in the image. Must have working knowledge of personal camera. **Fee does not include lunch in Washington.**

Saturday, September 28
9 a.m. to 5 p.m.
\$125 members; \$150 nonmembers
Carriage House
Todd Weinstein

**High Dynamic Range
(HDR) Photography (SNR)**

For intermediate or advanced photographers. HDR is all the rage in photo processing now, but so much of the work being produced looks over-processed and unnatural. Join photographer, graphic designer, and certified Photoshop and Lightroom expert Jeff Hirsch to learn how to see, shoot, and process HDR images in a range of treatments from real and natural to surreal and creative. Workshop participants will receive

a sample set of images to work with during the in-class demonstration, along with a special set of Jeff's custom presets for HDR Efex Pro 2.

Saturday, October 5
8:30 a.m. to noon
\$50 members; \$60 nonmembers
Carriage House
Jeff Hirsch

**The Art of Environmental
Portraits (SNR)**

For all levels. Join internationally recognized editorial and advertising photographer Mark Katzman to learn some skills and techniques that have made him such a highly regarded portrait photographer. In this practical session, Mark will address capturing portraits in the natural environment, including the use of natural lighting, composition to elicit intended emotions, coaching your subjects to get the best from them, and editing. There will be both a morning and afternoon shooting session with feedback and reviews. Lunch included.

Saturday, October 5
9 to 4 p.m.
\$150 members; \$180 nonmembers
Meet at Shaw Nature Reserve
Visitor Center
Mark Katzman

Publishing a Book of Your Photographs for \$100 or less (SNR)

Working knowledge of Adobe Photoshop and Adobe Bridge or Lightroom required. Join John Nagel, Executive Director of The International Photography Hall of Fame and Museum, as he takes you through the steps of turning your collection of images into a published work. He will address everything from paper and size choices to the proportion of images to text and the workflow using Photoshop, InDesign, Acrobat, and Blurb. He will cover color management, choosing the size and quality of your book, and the basics of InDesign. Please bring a sack lunch.

Saturday, October 12
9:30 a.m. to 2 p.m.
\$75 members; \$90 nonmembers
Adlyne Freund Center
John Nagel

Observations and Conversations with Nature (SNR)

For intermediate photographers who have a basic understanding of their 35mm cameras. Join professional photographer and veteran Missouri Botanical Garden photography instructor Scott Avetta for this interactive workshop focusing on the importance of designing your photographs based on the conditions. The rules of composition are often trumped by nature's chaos. What are some of the obstacles that we face, whether in nature or ones we place on ourselves? Through careful observation, learn how to define an image from within what

appears to be a busy scene. We will also discuss the importance of mood and storytelling in creating a dynamic image. We will photograph a variety of subjects through multiple forays onto the grounds, and we will learn how making small changes can make big differences.

Saturday and Sunday, October 12 and 13
7 to 11 a.m.
\$90 members; \$108 nonmembers
Carriage House
Scott Avetta

Historic Photographic Processes (SNR)

For all levels. Join David Hanlon, Professor at St. Louis Community College—Meramec, as he discusses the ways in which photographers chose and used varied recording materials in the 19th and 20th centuries. These choices often influenced how an image-maker approached subjects, as well as the visual outcome that was produced. Original examples of the historic formats will illustrate and supplement the discussion.

Saturday, November 9
9 to 11:30 a.m.
\$50 members; \$60 nonmembers
Adlyne Freund Center
David Hanlon



Creating Your Own Light: Flash and Flashlights for Nature Photography (SNR)

For intermediate to advance photographers. Join award-winning nature photographer Greg Basco as he shares his techniques for creating your own light using flash and flashlights. Following a presentation of Greg's work, you will practice using different set-ups that require a variety of lighting techniques. Spend the afternoon in the field practicing what was learned in the morning. Photographers should have a good understanding of basic exposure with natural light and concepts such as aperture, ISO, and shutter speed. Equipment needed for the workshop: DSLR camera or advanced point-and-shoot, a hot-shoe mounted flash, a flash cord or transmitter that gets the flash off-camera, and a lens or lenses that cover wide angle through medium telephoto. Lunch included.

Saturday, December 14
9 a.m. to 4 p.m.
\$125 members; \$150 nonmembers
Adlyne Freund Center
Greg Basco



Techniques and Equipment for Photographing Missouri Wildlife (SNR)

For all levels. Published photographer Danny Brown will share his secrets for capturing stunning images of Missouri wildlife. Topics will include camera settings, long lens techniques, use of natural light, hides and camouflage (watercraft and finding and approaching wildlife), and commonsense ethics in the field. He will also discuss simple post-processing techniques he uses to make the often-difficult transition from a great shot to a pleasing final image. Participants should be familiar with the use of a digital SLR camera, preferably with 300mm or longer lens.

Saturday, January 11
9 to 11:30 a.m.
\$30 members; \$36 nonmembers
Adlyne Freund Center
Danny Brown

Shooting and Sharing Photography in the Age of Social Media (SNR)

For all levels. These days, almost everyone carries a camera with them—even if it's just the one on their cell phone. Images can be shared almost as soon as they are taken. Photographs are “morphing” from things into “experiences.” No longer must we wait until the evening news to see what is happening in the world. Join us for this informative workshop which will include discussions of websites and mobile phone software as well as various mobile camera options. Participants will have the opportunity to practice what they learn by shooting and sharing “live” as the workshop unfolds. Lunch included. Please bring a laptop to class.

Saturday, February 8
9 a.m. to 4 p.m.
\$80 members; \$96 nonmembers
Adlyne Freund Center
Jeff Hirsch

Daytime Basic Photography (MBG)

Improve your photography skills by learning the key functions of your camera and how to use them to your advantage. Throughout this multi-session, hands-on session, Scott Avetta will spend time on composition, lighting, aperture, shutter speed, and ISO settings in the classroom, and then apply them in the field. The course is appropriate for both novice and intermediate students. Participants should bring a camera and manual to the classes.

5 Tuesdays: September 10, 17, 24;
October 1, 8
9:30 a.m. to 12:30 p.m.
\$170 members; \$204 nonmembers
Center for Home Gardening Classroom
Scott Avetta

Basic Photography (MBG)

In this multi-session, hands-on course you will have the opportunity to develop your skills as a photographer and explore the functions of your camera. You will learn about composition, lighting, shutter speed, aperture (f-stops), depth of field, and other terminology—all crucial to taking exceptional pictures. The course is appropriate for both novice and intermediate students. Participants should bring a 35mm camera (either film or digital) to the first session.

5 Wednesdays: September 18, 25; October 2, 9, 16; Fieldtrip October 13, 7 to 11 a.m.
7 to 9 p.m.
\$154 members; \$184 nonmembers
Missouri Room
Scott Avetta

Creativity in Photography—Breaking the Rules (MBG)

In this multi-session, hands-on course, you will have the opportunity to develop the skills of a professional photographer. You will learn about perspective and creativity through lectures and an exclusive expert-led Garden photo shoot. We will discuss going beyond just documenting the subject. Participants should know the basic functions of a camera.

3 Tuesdays: November 5, 12, 19
9:30 a.m. to 12:30 p.m.
\$113 members; \$135 nonmembers
Center for Home Garden Classroom
Scott Avetta

Exploring Light in Photography (MBG)

Understanding light is essential to creating photographs with impact. Learn how your camera interprets light and how differently we see it. We will discuss lighting conditions, weather, exposure compensation, and white balance along with other topics. Lighting plays a roll in everything from subject selection to lens choice.

3 Wednesdays: November 6, 13, and 20
7 to 9 p.m.
Photo shoot: Sunday, November 10
7 to 11 a.m.
\$125 members; \$150 nonmembers
Missouri Room
Scott Avetta

Capturing the Garden Glow (MBG)

Experience the Garden in a new light: Garden Glow! Influenced by the Garden's global reach, Garden Glow will celebrate the holiday season with the colors of the world in brilliant light and interactive fun. Sure to become one of St. Louis's most treasured traditions, Garden Glow's inaugural year will feature displays as ancient as flickering candlelight and

NEW!

as contemporary as solar fiber optic lights, with the incomparable beauty of the winter Garden as the foundation of the show. With tips and tricks from your professional photography instructor, you will take wonderful photos of the Garden filled with light. Class fees include admission to the event as well as classroom instruction and outdoor photo shoots. The use of a tripod is highly recommended.

Wednesday, December 4
or
Thursday, December 5
or
Wednesday, December 11
or
Thursday, December 12
5 to 7 p.m.
\$45 members; \$54 nonmembers
Ridgway Ticket Counter
Scott Avetta



NEW Behind the Scenes: Butterfly House Photography (BH)

Get rare access to the Butterfly House to take photos with professional assistance using a tripod. This class will offer the special privilege of taking photographs on a day the Butterfly House is closed to the public. Learn professional tips to capture these gorgeous animals. Participants should have a basic understanding of their camera's features.

Monday, February 17
9:30 a.m. to noon
\$32 members; \$39 nonmembers
Butterfly House
Scott Avetta

BOTANICAL CRAFTS

Introduction to Herbal Soap Making (SNR)

Learn how to make your own cold-pressed soap using vegetable oils and pure, therapeutic essential oils. Stir the pot as various vegetable oils, botanicals, essential oils, and other ingredients are added for a specific blend. Each participant will receive a cured bar of soap to take home. Other soaps will be available for purchase.

Saturday, September 14 or Saturday,
January 25
9 a.m. to noon
\$20 members; \$24 nonmembers
Adlyne Freund Center
Kathleen Schmidt

Basket Making: Carry All Tote Basket (MBG)

Before the farmers' market season ends, learn to weave this medium-sized basket. This sturdy basket features a squared bottom and swing handle. Considered a beginner's basket, it also makes a great basket for those who haven't woven for a while. This basket incorporates several reed sizes, along with basic weaving techniques. Leave those plastic bags at home this fall! Weaving materials supplied; tool list available on our website. Hand strength needed.

Saturday, September 21
9:30 a.m. to 3:30 p.m.
\$60 members; \$72 nonmembers
Center for Home Gardening Classroom
Stephanie Arnold

Recycle T-Shirts, VHS Tape, and More Unforgettable Projects (MBG)

If you're interested in starting a cool craft project using recycled materials, join St. Louis needle artist Suzanne Hirth as she walks you through a hands-on demonstration on how to make "yarn" made from old t-shirts and how to convert plastic grocery bags into "plarn" and use VHS tape in creative ways.

Saturday, September 28
9:30 to 11:30 a.m.
\$25 members; \$30 nonmembers
Center for Home Gardening Classroom
Suzanne Hirth

Reuse Plastic Bag Coiled Basket (MBG)

In this hands-on class, you will learn to turn a commonly throw-away problem—a plastic bag—into a resource: material for a basket. Kate will show you the technique to get you started on your coiled basket as well as demonstrate other techniques while you work. Be amazed what you can make from plastic, and the same technique can be used with other reused materials as well. Perfect for a greener holiday!

Monday, October 14
7 to 9 p.m.
\$25 members; \$30 nonmembers
Botanical Room
Kate Freeman



Bee-utiful Gifts (BH)

Join Jean Scholtes of KIND soap company to make your own skin care products. You will learn how to make your own lip balm and hand scrub using honey and beeswax. These are luxurious yet inexpensive gifts to impress friends and family during the holiday season.

Thursday, October 17
5 to 7 p.m.
\$35 members; \$42 nonmembers
Lopata Learning Lab
Jean Scholtes

Hawaiian-Style Lei Making from Your Own Garden (MBG)

Learn a new green skill: traditional Hawaiian woven leis. Cathie will teach you step-by-step how to design and create a lei using clippings collected at the Garden. Leis can be used as hair dressings, table centerpieces, and more. When finished using it, your gorgeous lei can return to Earth in the compost. A very green craft, indeed! In this class you will make an 8-inch lei that can be used many ways.

Tuesday, October 22
7 to 9 p.m.
\$30 members; \$36 nonmembers
Botanical Room
Cathie Matson Muschany

Garden in Glass: Make a Terrarium (MBG)

Terrariums make great holiday gifts for family and friends. Create a miniature landscape in a glass container in this hands-on class. Scale, balance, and visual focal points will be addressed. Glassware, soil, and several tropical plants will be provided. Bring six palm-sized rocks to landscape your terrariums and small ornaments to personalize your project. Once you've made the first one, you won't want to stop there!

Saturday, October 26
10 a.m. to noon
\$45 members; \$54 nonmembers
Botanical Room
Mark Zigrang

Terracotta Wind Chimes (MBG)

Add music to your garden or patio with a wind chime made with your own two hands. In this fun workshop, you will get your hands dirty with terracotta clay and, with leaves for decorations, construct your wind chimes using simple hand-building techniques. We will provide all materials. No clay experience needed. Fired and stained pieces will be ready for pick up at the Center for Home Gardening after November 18.

Monday, November 4
7 to 9 p.m.
\$35 members; \$42 nonmembers
Botanical Room
Mary Henderson

Butterfly Collage (BH)

Use real butterfly wings from naturally deceased butterflies to make a beautiful collage on paper. Let the vibrant colors of the butterflies be your inspiration as you create a unique piece of artwork that is all your own. A wide selection of butterfly wings will be provided for you to choose from.

Tuesday, November 5
10 to 11:30 a.m.

\$23 members; \$28 nonmembers
Lopata Learning Lab
Chris Hartley

**Paper Straw Basket Weaving (MBG)**

In this class, students will learn to make paper straws and spin paper into weavers from old magazines and then use this material to make a twining-style basket. Other styles of basket weaving, other uses of paper straws, and other paper crafts will also be discussed during the class as students work on their basket.

Tuesday, November 5
7 to 9 p.m.

\$30 members; \$36 nonmembers
Botanical Room
Kate Freeman

Basket Making: Chair-side Basket (MBG)

This fall, replace a plastic bag with a nice chair-side basket. This beginning class will introduce you to the ins and outs of weaving with Stephanie Arnold's easy-to-follow directions. Make a reusable basket that will last you many years. All weaving materials supplied. A tool list of household materials needed will be included with registration.

Saturday, November 9
9:30 a.m. to 3:30 p.m.

\$60 members; \$72 nonmembers
Botanical Room
Stephanie Arnold

Make a String Scarf with T-Yarn (MBG) NEW!

T-Yarn—"yarn" made from old t-shirts—is a creative medium for countless fun and green projects. The possibilities are endless! Join T-Yarn expert Suzanne Hirth as she helps you make a String Scarf using T-Yarn—no knitting or crochet needles necessary. Using her own pattern, Suzanne will show students how to make a scarf in about an hour. Just think: a project you can actually finish!

Saturday, November 9
10 a.m. to noon

\$25 members; \$30 nonmembers
Center for Home Gardening Classroom
Suzanne Hirth

Needle Felting 3-D NEW! Nature Ornaments (MBG)

Needle felting is a simple, creative technique where soft strands of colorful wool roving are applied to a base material with a special needle. Felting can be used to embellish just about anything or create 3-D pieces of holiday ornaments, such as holly leaves and red berries. Learn this fun craft from needle artist Suzanne Hirth. The pattern and a needle felting kit will be provided.

Saturday, November 16
9:30 a.m. to 12:30 p.m.

\$45 members; \$54 nonmembers
Botanical Room
Suzanne Hirth

Holiday Wreaths from Natural Materials (SNR)

Enjoy the fireside as you make a beautiful holiday wreath of fresh greens and other natural materials to take home. You will learn some design techniques and how to apply them to wreath making. Bring pruning shears and garden gloves. All other materials will be provided.

Wednesday, December 4
or

Thursday, December 5
6:30 to 9 p.m.

\$40 members; \$48 nonmembers
Adlyne Freund Center
Barbara Troutman & SNR Staff

A "Greener" Holiday Wreath (MBG) NEW!

This year we take a new look at the classic holiday wreath and made it greener and more local. Create a beautiful 20" holiday wreath with a base of juniper gathered from the Shaw Nature Reserve as well as natural accents collected from Garden and sourced locally. All materials will be provided. No experience necessary but some hand strength required. Please bring pruning shears, gloves, and any accents you would like to add.

Saturday, December 7
or

Friday, December 13
10 a.m. to noon

\$45 members; \$54 nonmembers
Missouri Room
Tammy Palmier



GREEN LIVING

Composting Completely (CBEC)

Interested in composting but don't know where to start? This class is for you! We'll discuss composting basics, bin design, frequently asked questions, and more. Participants will walk away with their own kitchen compost waste collector to store scraps until they are ready to transfer to their compost systems, along with the knowledge they need to construct their own home composting system.

Tuesday, September 17

7 to 8:30 p.m.

\$45 members; \$54 nonmembers

Commerce Bank Center for Science

Education-Room-Room 126

Katherine Golden

Plants in the City: Vacant Lots Come Alive (off-site) **NEW!**

What, exactly, is the Land Lab Competition? And what does it have to do with milkshakes? The idea started as a joint project between the City of St. Louis and Washington University. The outcome was a competition for ideas to transform vacant land in Old North St. Louis into an asset that also advances sustainability. Of the 48 initial submissions in the public competition, only four were selected for implementation as two-year demonstration projects. Of those four teams, three have Missouri Botanical Garden staff on their teams! During this program, meet the Sunflower+ Project team leader and Garden staffer, Richard Reilly, on the project's site for a guided tour of several Land Lab Projects in process. During the tour, participants will learn about a

historic neighborhood in a state of positive transition, vacant lots and land use/reutilization in the city, including Habitat for Humanity in Old North, sustainable and creative land-use strategies, and the basics/options for soil testing. And to top it all off, we'll finish up with a milkshake from Crown Candy! What could be better? For more information on the Land Lab project, visit <http://sustainablecities.wustl.edu/land-labs-competition>

Saturday, October 19

9 to 11 a.m.

\$30 members; \$36 nonmembers

Sunflower+ Project Site-14th and Warren

Streets, St. Louis, MO

Richard Reilly

Solar Panels at Home (CBEC)

Have you noticed and heard more about solar panels lately? Wondering if they might be a good investment for your home but not sure where to start? Get your questions answered and more during a panel discussion with local solar installers and homeowners to hear what they have to say regarding feasibility, financing, and more!

Sunday, December 8

1 to 3 p.m.

\$25 members; \$30 nonmembers

Commerce Bank Center for Science

Conservation-Room 125

Cindy Bambini, Brightergy Solar; Dane

Glueck, StraightUp Solar; Ben Good,

Microgrid Solar; Jim Jordan, Homeowner,

Show Me Solar

Check out our Green Homes Festival on page 49.

NATURE STUDY

Evening Canopy Climb

Looking for a unique date night experience? This class gives you an unforgettable birds-eye view of the world, immersed in the canopy of majestic trees. In this two-hour experience, expert instructors will introduce you to the extraordinary, diverse world of trees, while teaching you the basics of tree-climbing mechanics including techniques, balance, and safety. Throughout this session, climbers will have the opportunity to ascend and descend multiple times, exploring different parts of the tree's structure, limbs, and canopy. This course is designed for first-time climbers, with an emphasis on basic tree-climbing mechanics along with introductory tree/forest ecology. To ensure a quality experience for all, maximum capacity for each session is 12 climbers. Register early as spots are limited. Special offer for groups: Register an entire session (12 climbers) and each climber receives the member rate. Price is per climber.

Friday, September 13 or Friday, October 11
6 to 8 p.m.

\$35 members; \$43 nonmembers

Meet at Ridgway Visitor Center

Jon Richard and MBG Staff

Birding II (MBG)

If you've already taken the "Basics of Birding" class or have prior experience, then challenge yourself to learn more during this in-depth, 12-session course! The evening classes will focus on major groups like shorebirds, warblers, hawks, waterfowl, and gulls. Additional topics may include optical equipment, speciation, songs and calls, and how to document sightings. The full-day

weekend field trips will include visits to a number of good birding areas for fall migration. Participants provide their own transportation and lunch. Field trips and class dates are subject to change.

6 Classes: Wednesday, September 4;

Mondays, September 16, October 7,

October 21, November 11, December 2

Fieldtrips: Saturday, September 7; Sunday,

September 22; Saturday, October 12;

Sunday, October 27; Saturday, November

16; Sunday, December 8

All classes in Ridgway Visitor Center except

December 2, which is in Commerce Bank

Center for Science Education-Room 126

7 to 9 p.m.

\$250 members; \$300 nonmembers

Botanical Room

William Rowe

Wildflower Identification & Ecology (SNR)

This course will focus on identification, relationships, and habitats of wildflowers and native grasses of the season. Beginners, as well as serious students of wildflowers, will increase their knowledge and appreciation of the rich floral diversity of the Nature Reserve's woods, prairie, and wetland. Come ready for moderate hiking with notebook in hand! Sign up for one or both sessions.

Saturdays, September 7 and October 12

9 a.m. to noon

\$16 members; \$19 nonmembers

Meet at Visitor Center

Dr. James Trager

Check out our Youth & Family Canopy Climb I and II on page 44-45

An Inside Look at Shaw Nature Reserve (SNR) **NEW!**

Sip coffee or hot tea with friends while Shaw Nature Reserve staff show you an inside look at the beautiful and historic Reserve.

9 to 10:30 a.m.
\$1 members; \$6 nonmembers
Bascom House

Historic Wagon Ride

Take a trip down memory lane as we share pictures and stories from Shaw Nature Reserve's past. After the presentation, we'll climb aboard the Wilderness Wagon to take a tour of some of the historic structures at the Reserve.

Thursday, September 12
Rachel Weller and SNR Volunteers

History of the Bascom House

Join local historian Larry Melton as he shares stories of the history of the Bascom House and surrounding area. After the presentation, a staff person from the Reserve will conduct a tour of the Bascom House and a stroll through the Whitmire Wildflower Garden.

Thursday, October 10
Larry Melton and Rachel Weller

History of Shaw Nature Reserve

Join John Behrer, Director of Shaw Nature Reserve, at the historic Adlyne Freund Center for a brief presentation on the interesting history of the Reserve followed by a short walk to tour the historic lodges of the Dana Brown Overnight Center.

Thursday, November 14
John Behrer and Rachel Weller



Fall Wildflower Ramble (SNR)

Join these informal, educational walks in appreciation of the end of summer wildflower season in Shaw Nature Reserve's diverse plant habitats. These hikes are led by wildflower naturalists. Wear comfortable hiking clothes and bring a sack lunch (optional). No reservations taken; pay on arrival. Price is per walk.

Tuesdays, September 10, 17, or 24
9:30 a.m. to noon
\$6 members; \$9 nonmembers
Meet at Visitor Center
Dr. James Trager with Dick and Susie Russell

Wine and Cheese

Night Hike (SNR)

For adults 21 and over. We will take a leisurely 1½ mile walk along woodland and prairie trails, learning about the nighttime environment along the way. During the walk we will make a brief stop to enjoy a glass of wine (or non-alcoholic beverage) and some crackers and cheese. Dress for the weather and wear appropriate hiking shoes. This walk fills quickly—prompt registration is suggested.

Wednesday, September 18
or
Friday, October 11
7 to 9:30 p.m.
\$20 members; \$24 nonmembers
Meet at the Visitor Center
Lydia Toth and Rachel Weller

Missouri's Wild Mushrooms: Hunting, Identifying, and Cooking (SNR)

Ever been out in the woods and wondered if that mushroom is edible? In this class you will learn to identify a few common poisonous mushrooms and lots of edibles—first in the classroom and then in the field. Wear appropriate clothing and be prepared to walk over uneven ground in the woods. This class will be taught by Maxine Stone, the author of Missouri's Wild Mushrooms, which is an excellent field guide published by the Missouri Department of Conservation.

Sunday, September 22
1 to 4 p.m.
\$20 members; \$24 nonmembers
Carriage House
Maxine Stone

Wild Edibles (SNR)

Learn to identify some of the common seasonal wild edibles that can be found in Missouri. This class will include safety tips for foraging plants, keys to identification, and a hike to let you practice identifying wild edibles in their environment. You will have the opportunity to sample a variety of raw and prepared wild foods.

Saturday, October 19
Noon to 3 p.m.
\$20 members; \$24 nonmembers
Carriage House
Dr. Catrina Adams

Trees of Shaw Nature Reserve (SNR)

Impress friends and family with your newfound tree expertise after experiencing this expert-led tour. Shaw Nature Reserve is blessed with a great variety of trees due to its varied topography and soil types. This program emphasizes native trees of Missouri, identification by leaf, fruit, and bark, and typical habitat, with special emphasis on the oaks. During this hike through the habitats, we will also search out some of the giant trees of the Reserve and less-known species of small trees.

Saturday, October 19
9 a.m. to noon
\$20 members; \$24 nonmembers
Meet at the SNR Visitor Center
Dr. James Trager

Valentine's Night Hike (SNR)

Bundle up and spend the evening under the stars with your sweetheart, friends, or adult family members! Use your senses to enjoy the wonders of a crisp, cool, but invigorating Nature Reserve winter night. You will have the opportunity to see the constellations and planets using our telescope (weather permitting). After the hike enjoy steamy hot beverages and delectable desserts. What a unique way to say "I love you!"

Thursday, February 13
or
Saturday, February 15
7 to 10 p.m.
\$24 members; \$29 nonmembers
Dana Brown Overnight Center
SNR Staff

HEALTH AND WELLNESS

Wednesday Walkers (SNR)

Wednesdays, sign in at the Visitor Center and then gather out front to meet Rachel. Average walk is 1-1/2 to 2 hours, allowing time to stop, look, listen, and converse. After nine weeks you will have hiked most of SNR's trails and made new friends. The final walk is called "Reward Wednesday" and includes a potluck gathering. Reservations preferred but walk-ins welcome; pay on arrival.

Wednesdays in September and October
10 to 11:30 a.m.

\$1 members; \$6 nonmembers

Meet at SNR Visitor Center

Rachel Weller

Stay Strong, Stay Healthy (MBG)

Enjoy the beauty of the Garden during this ten-week introduction to strength training. Light weights will be used to increase strength and improve balance. Weather permitting, the program may take place outdoors in the Garden. Please complete and bring participant information forms to first scheduled class.

10 Wednesdays: September 4, 11, 18, 25; October 2, 9, 16, 23, 30; and November 6
10 to 11 a.m.

\$54 members; \$64 nonmembers

Garden Room

Mary Wissmann MS, RD, LD

Meditations in the Garden (MBG)

Explore the treasures of the Garden through the senses during this four-week program. Learn Mindful Meditations to explore the Garden through its sounds, sights, textures, and smells. Practice progressive relaxation and breathing exercises to help clear the mind of its chatter. Cultivate inner peace, restore emotional balance, and deepen your connection to the beauty of nature. Weather permitting, class will be outdoors. Please dress for outdoor comfort. Moderate walking required. Any classes cancelled due to weather will be made up October 3rd or 10th.

4 Fridays: September 6, 13, 20, 27. Back-up
rain dates are October 3 and 10

9:30 to 11 a.m.

\$75 members; \$90 nonmembers

Garden Room

Rhonda Leifheit

Fitness Walk (MBG)

Many of us miss the beautiful, ever-changing seasonal blooms in the Garden. Join us on a once-a-month walk with a focus on fitness as we journey through the Garden. Dress for the weather and wear your walking shoes. Bring a water bottle to keep you hydrated.

10 to 11 a.m.

\$6 members; \$7 nonmembers

Meet at Ridgway Ticket Counter

Donald Frisch

Late Summer Fitness Walk

Monday, September 9

Fall Fitness Walk

Monday, October 14

Winter Fitness Walk

Monday, December 2

Hiking with Rover (SNR)

Take your favorite canine companion for a nice one-to-two-mile hike led by Reserve staff. This is a rare opportunity to spend time with your pooch at a natural area where dogs are not normally allowed. Your four-legged friend must be socialized (nice to all other dogs and people), remain on a six-foot leash at all times, and you must pick up and properly dispose of all waste. Your dog must be up-to-date on vaccinations; please bring a copy of vaccination record the day of class. Please be sure to include the weight of your dog when you register for this class. We will cancel if it rains. Hikes are on trails over rolling terrain.

Friday, September 20
6 to 8 p.m.

or

Monday, September 30
9 to 11 a.m.

\$6 members; \$9 nonmembers

Adlyne Freund Center

Aileen Abbott and Karen Bryan

Monthly Trail Fun Run (SNR)

For ages 16 and up. These runs are a good way to meet other runners in the area. Participants sign-in at SNR's Visitor Center and then wait for other runners to assemble before starting. The distances will vary from three to ten miles. The pace will be self-determined, allowing for time to look, listen, converse, and make new friends. The route for each run will be available a few days prior on SNR's Facebook page. Reservations preferred but walk-ins welcome; pay on arrival.

Saturday, September 21

or

Saturday, October 19
8 to 11 a.m.

\$1 members; \$6 nonmembers

Meet at the Visitor Center

Kelsey Vollmer or Rachel Weller



De-stressing with Flowers (MBG)

Take time for yourself! De-stress while arranging beautiful flowers of the season.

10 to 11:30 a.m.

\$18 members; \$21 nonmembers

Garden Room

Jennifer Smith

Late Summer Harvest

Friday, September 27

Winter Interest Arrangement

Friday, December 6

YOUTH AND FAMILY

Note: Shaw Nature Reserve pass holders receive member rate for all Reserve classes.

AGES 6 AND UNDER

In addition to encouraging positive outdoor nature experiences, our expertly designed programs for the youngest of children are also excellent ways to prepare them for preschool and kindergarten.

Strollerobics (MBG)

Work out at the Garden with trained fitness instructors! Strollerobics is a fun, eight-week workout for all fitness levels. Participants push strollers along the Garden's mostly flat paths, stopping to do cardio and toning exercises. Your children will enjoy the Garden's sights and sounds while you get a great workout and socialize with other parents!

\$52 members; \$62 nonmembers
Garden Grounds

Tuesday Evenings

6 to 7 p.m.
Tuesdays, September 3, 10, 17, 24, and
October 1, 8, 15, 22

Thursday Mornings

9:30 to 10:30 a.m.
Thursdays, September 5, 12, 19, 26, and
October 3, 10, 17, 24

Friday Mornings

9:30 to 10:30 a.m.
Fridays, September 6, 13, 20, 27, and
October 4, 11, 18, 25

Little Sprouts

For ages 2 to 3. Learn about plants and nature with your toddler during this seven-week series. Each session includes indoor, hands-on activities, songs, stories, snacks, and a walk in the Garden. Price per child; one adult per child, please.

10 to 11:30 a.m.
Botanical Room
Kelly Wehrheim

Fall Series

This fall, participants will learn about a different type of plant like flowers, herbs, bushes, or vines during each class.

\$98 members; \$118 nonmembers

Monday Series

7 Mondays: September 9, 16, 23, 30, and
October 7, 14, 21

Tuesday Series

7 Tuesdays, September 10, 17, 24, and
October 1, 8, 15, 22

Wednesday Series

7 Wednesdays, September 11, 18, 25, and
October 2, 9, 16, 23

Winter Series

This winter, participants will visit the "houses" at the Garden and learn about the plants growing inside.

\$56 members; \$67 nonmembers

Monday Series

4 Mondays, November 18, 25,
and December 2, 9

Tuesday Series

Tuesdays, November 19, 26,
and December 3, 10



Little Bugs (BH) **NEW!**

For ages 2 to 5. Bring your child to learn about butterflies and create a unique work of art together. The class meets monthly, and each session will include a craft, story, snacks, and a walk through the Butterfly House. In September, make a butterfly planter. In October, make a terrarium. In November, we will make a framable piece of butterfly art. One adult per child please. Price is per child.

10 to 11:30 a.m.
\$42 members; \$50 nonmembers
Lopata Learning Lab
BH staff

Wednesday Series

3 Wednesdays: September 11, October 9,
November 13

Tuesdays Series

3 Tuesdays: September 17, October 15,
November 19

Thursday Series

3 Thursdays: September 5, October 3,
November 7

Little Acorns (SNR)

For ages 3 to 5. Bring your "Little Acorn" to enjoy hands-on, nature-based activities and crafts. Our goal is to help your child begin nurturing an appreciation for nature. Little Acorns classes are an excellent way to help prepare your child for pre-school or kindergarten! A snack and take-home craft are included. Please check in at the Visitor Center upon arrival. Price per child. One adult per child please. Price is per class.

10 a.m. to noon
\$14 members; \$17 nonmembers
Carriage House
Karen Bryan

Now You See Me, Now You Don't

Join us as we learn about how animals use camouflage to hide. We will search for some animals that are blending in with their surroundings.
Tuesday, September 3

Autumn Celebration

You are invited to join as we celebrate autumn. We will explore our forest looking for different types of leaves, seed pods, and fall's hidden treasures.

Tuesday, October 1

What are you doing this winter?

Brrrrr! It's getting cold outside! What do animals do for the winter? Do they fly south for a tropical vacation, or do they put on extra layers of clothing and hit the ski slopes? Come and explore what animals at Shaw Nature Reserve are doing to get ready for the winter.

Tuesday, November 5

Tadpoles and Caterpillars (SNR)

For ages 3 to 5. Tadpoles and Caterpillars classes give young learners a chance to learn about the natural world through real experiences in nature. Parents are encouraged to bring a snack for their child. Instructions for a take-home craft will be included in this 1-1/2-hour class. Please check in at the Visitor Center upon arrival. Price per child. One adult per child please.

9:30 to 11 a.m.
\$10 members; \$12 nonmembers
Shaw Nature Reserve Visitor Center
Karen Bryan

Earth Walk

Through fun and engaging activities and games, children will go on an "Earth Walk" where they will use their five senses to explore SNR.

Monday, September 16

What's "Hopping" in the Prairie?

In October's class join us as we explore the prairie. Hide in grass taller than you and discover what other critters make the tall grass prairie their home.

Monday, October 14

Garden Buds (MBG)

For ages 4 to 6. Discover the amazing world of plants with your preschooler in Garden Buds! Prices per child, per class; one adult per child, please. Register by September 1 for three or more Garden Buds classes, and your child will receive a t-shirt and surprise gift!

10 to 11:30 a.m.
\$14 members; \$17 nonmembers
Botanical Room
Kelly Wehrheim

Veggies Tales (MBG)

Every vegetable has a story to tell! Join us as we see how different vegetables grow, create some veggie art, and sample a garden buffet.

Thursday, September 5

Super Seeds

Next year's garden is already underway, as plants drop their precious seeds. We will learn about how seeds travel, and you will take home seeds for your next garden.

Thursday, September 19

Leaf the Fun to Us

We'll explore what makes each kind of tree special as we go on an autumn treasure hunt in the Garden. We'll create unique artwork using leaves, try some tasty tree treats, and become sleuths at identifying different trees!

Thursday, October 17

An aMAZEing Race

You'll divide into teams and use a special map to find your way through the Garden to the maze. Then you'll navigate the maze in a race where everyone wins.

Thursday, October 24

Flytraps and Pitfalls

Find out what these plants like to eat and how they capture their prey. You'll even get to take one home, if you dare!

Thursday, November 7

Evergreen: A Special Tree for Me!

There are many kinds of evergreens. We'll find out what makes an evergreen "ever green," discover who lives in these special plants, and use evergreens to make a special craft.

Thursday, December 5

The Listening Walk (SNR)

For ages 3 to 6. This evening walk is based on the book *The Listening Walk* by David Kirk. Children will have a chance to explore Shaw Nature Reserve as it gets dark and discover some of the critters that come out in the evening. Join us as we explore the many surprises that being out at night can hold! You will want to eat supper before this class. We will cancel if it rains. Price per child. One adult per child please. With support from the Missouri Department of Conservation.

Friday, September 13
6 to 7:30 p.m.
\$5 members; \$8 nonmembers
Meet at Shaw Nature Reserve Center
Karen Bryan

Art and Nature (SNR)

For ages 4 and up. Paint, squish, make music, and dance! At various stations children will hear bird and frog songs, create a critter to take home, "dance" like jumping spiders, and hike a little to learn how artistic nature can be! Price is per child. One adult per child please. With support from the Missouri Department of Conservation.

Monday, September 16
10 a.m. to noon
\$5 members; \$8 nonmembers
Carriage House
Rachel Weller

Nature Colors (SNR)

For ages 4 and up. Nature has a rainbow of colors. Join us as we read a story, create a color camouflage critter, explore the different colors and textures of animal fur, take a short walk searching for different colors in nature, and play a game! Price is per child. One adult per child, please. With support from the Missouri Department of Conservation.

Monday, September 23
10 a.m. to noon
\$5 members; \$8 nonmembers
Nature Explore Classroom
Rachel Weller



AGES 6 AND UP

Great Green

Adventures (MBG)

For ages 6 to 12. Sign up now or just drop-in to explore a special area of the Garden. Price per child; up to three children per adult. Younger siblings may attend.

10:30 to 11:30 a.m.

or

1:30 to 2:30 p.m.

Free for members; \$3 nonmembers with

Garden admission

Doris I. Schnuck Children's Garden

Ticket Fort

Kelly Wehrheim

Exploring the Sensory Garden

Did you know that plants help to flavor some of our favorite foods? Join us as we use all of our senses to explore the Sensory Garden.

Saturday, September 21

Weather Watcher

Join us as we observe and identify changes in the weather and how this seasonal change affects the plants in the Garden.

Saturday, October 19

Who's Here Now?

Let's explore the Garden for animals that are here now and learn what they eat and how they survive the winter.

Saturday, November 16



Tropical Treats

Did you know that many of our yummy treats come from plants in the tropical rainforest? Come along as we explore in the Climatron.

Saturday, December 21

Winter Bird Walk

Join us as we observe and record bird behavior, appearance, and identify plant-based winter food sources.

Saturday, January 18

Trees with Winter Coats

Why do some trees keep their leaves or needles over the winter and others lose them? Join us as we get to know some of the trees in the Garden by their bark, needles, or berries.

Saturday, February 15

Butterfly Collage for Kids (BH)

For ages 8 and up. Use real butterfly wings from naturally deceased butterflies to make a beautiful collage on paper. Let the vibrant colors of the butterflies be your inspiration as you create a unique piece of artwork that is all your own. A wide selection of butterfly wings will be provided for you to choose from. One adult per child please. Price is per child.

Saturday, November 9

10 to 11:30 a.m.

\$23 members; \$28 nonmembers

Lopata Learning Lab

Chris Hartley

FAMILY PROGRAMMING

Shaw Samplers (SNR) **NEW!**

For families with children of all ages. Gather your friends and family to join the staff of Shaw Nature Reserve for a taste of the Reserve. We will learn about the outdoors, get familiar with the trails, and observe nature. These programs are perfect for those who want to get to know the Reserve better with the company of others. Reservations preferred but walk-ins welcome; pay on arrival. Price per person. Children ages 2 and under are free. With support from the Missouri Department of Conservation.

Biking at Shaw

Join us during the coolest part of the morning as we bike around the Reserve, stopping to make observations along the way.

Relax and enjoy refreshments afterwards in the Nature Explore Classroom.

Thursday, September 5

9 to 11 a.m.

or

Wednesday, September 11

6 to 7:30 p.m.

\$1 members; \$6 nonmembers

Meet at the Visitor Center.

Rachel Weller

Geocaching for Families

Join us on this outdoor treasure hunt! You will learn about using a GPS and then get to hike around the Reserve to find some caches! We will have GPS devices for you to use, or you can use your own or your smartphone.

Sunday, September 8

2 to 4:30 p.m.

\$5 members; \$8 nonmembers

Visitor Center

Rachel Weller

Trail Social Run

Enjoy the company of other runners, walkers, or run/walkers at our Monday night Trail Social Runs. Route is one to five miles. Quench your thirst afterwards and enjoy socializing with others at the Bascom House or Glassberg Family Pavilions. Weather dependent. Strollers welcome. Price per run.

Mondays, September 9, 16, 23, 30
6 to 7:30 p.m.

\$1 members; \$6 nonmembers

Meet at the Bascom House parking lot

Rachel Weller

Strollercize at Shaw

Get your heart pumping while pushing your stroller on the trails at the Reserve. Children get to enjoy seeing nature while you get your workout in! Strollers with heavy-duty tires designed for rocky and mulched trails recommended. Price per adult.

Tuesday, October 8

9 to 11 a.m.

\$1 members; \$6 nonmembers

Meet at the SNR Visitor Center.

Rachel Weller

Green Family Fun (CBEC) NEW!

For families of all ages. Going green is great—especially when everyone in the family can get involved. Imagine your youngest taking on recycling duty for the house, or your oldest managing the family's compost bin! Join us for a series of classes where each member of the family understands the importance and takes ownership in making more sustainable choices for your home. When registering, please include the number (one to five) and ages of people in your family. Price is per family. Price per class.

1 to 2:30 p.m.

\$40 members; \$48 nonmembers

Commerce Bank Center for Science

Education-Room-Room 126

Kim Petzing and Katherine Golden

**Going Green 101**

Through activities, games, and discussion, this introductory class will feature basics of sustainability, along with simple tips and tricks for being more “green” in and around your house. Each family will make and take home a “Home, Green Home” kit.

Saturday, October 26

Reduce, Reuse, Recycle!

Join us in this fun, hands-on program as we learn all about recyclables. Learn how, as a family, you can make a big a difference! We'll play fun recycling games and learn how to turn something old into something new!

Saturday, November 16

Take out the Toxic

Many common household products may contain hazardous properties. Join us in this workshop as we learn about hazardous waste prevention, responsible handling of toxic products, and consumer alternatives to these products. Participants will take home their own home-made green cleaner.

Saturday, January 18

Composting

Composting is fun and easy! Bring the kids to this family-friendly program and learn all about composting. Adults and kids will love this fun, educational workshop as they learn how composting can help the Earth. Each family group will make a worm bin to take home, so they can start composting right away!

Saturday, February 22

**Shaw Family Weekends (SNR)**

For families with children of all ages (except Nature Tag). Shaw Family Weekends are a time for families to gather together and enjoy the outdoors. Price is per child. Children ages two and under are free. With support from the Missouri Department of Conservation. Reservations preferred, but walk-ins welcome.

Children ages two and under are free. With support from the Missouri Department of Conservation. Reservations preferred, but walk-ins welcome.

\$5 members; \$8 nonmembers

Bascom House

Rachel Weller

Insect Investigations

Buzz on over to Shaw Nature Reserve for an afternoon of hands-on activities, make your own butterfly, eat treats from pollinators, and learn the differences between insects and bugs. We will also have information on the Citizen Science Pollinator Monitoring program.

Saturday, September 7

3:30 to 5:30 p.m.

Surviving the Switch to Fall

Come learn what animals do to prepare for winter in this interactive class. We will play games, do hands-on activities, take a short hike, and end with a cozy fire and hot chocolate. We suggest bringing a snack to enjoy around the fire or bring a supper to enjoy inside the Bascom House after the class! We will also have information on the Citizen Science Wildlife Watch program.

Saturday, October 12

3:30 to 5:30 p.m.

Nature Tag

For children ages 8 to 17. Nature Tag is a hands-on way to learn something about what life is like for animals living among the plants of a tallgrass prairie. At the start of each round participants will be divided into “rabbits” and “coyotes.” Once the game starts, the rabbits attempt to avoid being tagged by the coyotes as they travel through the prairie to the relative safety of a “brush pile.” The game of Nature Tag will be preceded by a short presentation on the hunting and evasion strategies used by the real animals of the prairie. We will also have information on the Citizen Science RabbitScan program.

Saturday, November 2

12:30 to 3 p.m.

Canopy Climb I:**Learning the Ropes**

For adults and families with children ages 8 and older. This unique experience gives you an unforgettable birds-eye view of the world, immersed in the canopy of majestic trees. In this two-hour experience, expert instructors will introduce you to the extraordinary, diverse world of trees, while teaching you the basics of tree-climbing mechanics including climbing techniques, balance, and safety. Throughout this session, climbers will have the opportunity to ascend and descend multiple times, exploring different parts of the tree's structure, limbs, and canopy. This course is designed for first-time climbers, with an emphasis on basic tree-climbing mechanics along with introductory tree/forest ecology. To ensure a quality experience for all, maximum capacity for each session is 12 climbers. Register early, as spots are limited. Special offer for groups: Register an entire session (12 climbers) and each climber receives the member rate. Price is per climber. Price is per session.

\$35 members; \$43 nonmembers
Jon Richards and MBG staff

**(MBG)**

Meet at climb site 15 minutes prior.
Map will be sent with confirmation.

Saturday, September 14

Session 1: 9:30 to 11:30 a.m.
or
Session 2: 12:30 to 2:30 p.m.

Sunday, September 15

Session 1: 1 to 3 p.m.
or
Session 2: 3:30 to 5:30 p.m.

Saturday, October 12

Session 1: 9:30 to 11:30 a.m.
or
Session 2: 12:30 to 2:30 p.m.

Sunday, October 13

Session 1: 1 to 3 p.m.
or
Session 2: 3:30 to 5:30 p.m.

(SNR)

Meet at the Bascom House 15 minutes prior.

Saturday, September 21

Session 1: 9:30 to 11:30 a.m.
or
Session 2: 12:30 to 2:30 p.m.

Sunday, September 22

Session 1: 1 to 3 p.m.
or
Session 2: 3:30 to 5:30 p.m.

Saturday, October 19

Session 1: 9:30 to 11:30 a.m.
or
Session 2: 12:30 to 2:30 p.m.

Sunday, October 20

Session 1: 1 to 3 p.m.
or
Session 2: 3:30 to 5:30 p.m.

Canopy Climb II:**Exploring the Canopy**
For adults and families with children ages 12 and older.

Designed for those who want to strengthen and diversify their climbing skills, this three-hour experience has a maximum of six climbers per session. In this in-depth course, climbers will learn to climb more efficiently using foot-locking as opposed to using a foot-loop. Your instructor will demonstrate limb-walking, single-line technique, and in-canopy rope advancement. Based on individual progress or abilities, climbers may experience all or some of these advanced techniques during this unforgettable experience. While in the canopy alongside you, your instructor will also provide in-depth information on tree biology/physiology, forest ecology, and conservation efforts to protect forests close to home and around the world. Climbers must have taken "Canopy Climb I" or have climbed previously using double-rope technique. Climbers need to be in good physical condition. Register early, as spots are limited. Price is per climber. Price is per session.

\$55 members; \$68 nonmembers
Jon Richards and MBG staff

(MBG)

Meet at climb site 15 minutes prior.
Map will be sent with confirmation.

Sunday, September 15
or
Sunday, October 13
9:30 a.m. to 12:30 p.m.

(SNR)

Meet at the Bascom House 15 minutes prior.

Sunday, September 22
or
Sunday, October 20
9:30 a.m. to 12:30 p.m.

Full Moon Night Hike
for Families (SNR)

For adults and families with children ages 6 and older. Join us for this two-hour stroll through evening and into the early night. The sun will have set before the hike starts, but the full moon should provide all the light needed to enjoy the sights, sounds, and smells of a fall evening at Shaw Nature Reserve. Participants will play a series of sensory-based games that test the senses. In addition, you'll learn a bit about the various ecosystems of Shaw Nature Reserve. All else excluded, the sight of a full moon rising over acres of tallgrass prairie makes the journey to the Reserve worth the time spent. This hike will cover roughly two miles on trails over uneven ground. Price per person.

Friday, October 18
7 to 9 p.m.

\$5 members; \$8 nonmembers
Meet at the SNR Visitor's Center
Steve Bean

Meramec River and Gravel Bar Exploration (SNR)

For families with children ages 10 to 13. We will meet at the Visitor Center then drive to the Trail House to begin our hike down to our gravel bar. We will hike through beautiful woodlands and glades on our journey. Once at the river we will have nets to catch and discover what lives in the Meramec and have an opportunity to explore the gravel bar. Feel free to bring a picnic lunch and hike around the Reserve after class! Price per person.

Saturday, October 12
9 a.m. to noon
\$10 members; \$12 nonmembers
Meet at Shaw Nature Visitor Center
Aileen Abbott

Our Fine Feathered Friends (SNR)

For families with children ages 10 to 13. We will be learning about various bird species found at Shaw Nature Reserve. What makes a bird a bird, how can we identify them, where do they live, and what do they eat? There will be an indoor lesson followed by a birding hike. Feel free to bring a picnic lunch and hike around the Reserve after class. Price is per child. No more than two children per adult please.

Sunday, November 3
9 a.m. to noon
\$5 members; \$8 nonmembers
Dana Brown Overnight Center
Aileen Abbott



DROP-IN FAMILY ACTIVITIES

Germination Stations (MBG)

For kids of all ages. Dig deeper into the Children's Garden with interactive carts of nature-based activities.

- **Mondays:** General Store
- **Tuesdays:** Edible Garden
- **Wednesdays:** Nature Explorer
- **Thursdays:** Wetlands
- **Fridays:** Pollination Station
- **Saturdays:** Edible Garden
- **Sundays:** Cave
Through November 4
Daily 10 a.m. to noon
Included with Children's Garden Admission
MBG staff and volunteers

Nature Journaling (MBG)

For kids of all ages. Receive your very own journal and take a guided trek through the Children's Garden and draw and/or write your nature observations.

Tuesdays and Saturdays
(through November 4)
11 a.m.
Included in Children's Garden Admission
MBG Interpretation staff

Storytelling (MBG)

For kids of all ages. Relax a while and enjoy a food-themed story in the cozy story corner of the Brookings Interpretive Center and the historic Tower Grove House.

Tuesdays and Saturdays (through January 5, 2014)
10 a.m.-Brookings Interpretive Center and
Wednesdays through December 29
11 a.m.-Tower Grove House
Included with Garden admission
MBG Interpretation staff

Foodology Crafts (MBG)

For kids of all ages. Explore your artistic side and create a fun food-themed craft!

Daily at 4 p.m.
Included with Garden admission
Brookings Interpretive Center
MBG Interpretation staff

Children's Garden (MBG)

Garden Members:

Free Tuesdays all day and Saturdays from 9 a.m. to noon.
Family-level members and above get free admission every day.

St. Louis City/County Residents:

Free on Saturdays from 9 a.m. to noon.



Discover Nature Families (SNR)

For families with children ages 5 and older. Discover Nature Families programs are meant to help adults and children explore nature and master outdoor skills together.

9:30 a.m. to noon
Included in SNR general admission
Nature Explore Classroom
Jim and Brenda Christ

Crazy about Birds

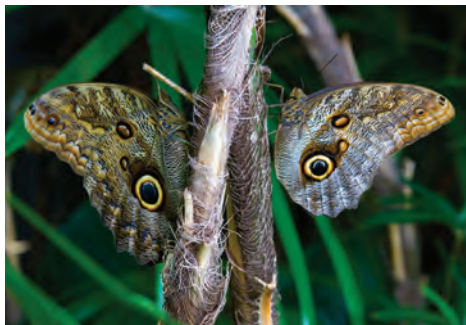
For “Crazy about Birds,” naturalists will be on hand to teach your child about some of the birds that live in the Reserve. Stop by for a few minutes (or an hour) to learn about what makes birds so unique.

Saturday, September 21

Life on the Prairie

For “Life on the Prairie,” naturalists will be on hand to teach your child about some of the plants and animals that live in tallgrass prairies. Many people look at a prairie and see nothing but grass, but there is an incredible amount of diversity in prairie habitats. Stop by for a few minutes (or an hour) to learn about what makes prairies so unique.

Saturday, October 12



Owls and Orchids: Animal Encounters (BH)

For families with children of all ages. Stay late at the Butterfly House each Tuesday in October to visit with our nocturnal friends. Live animals will be here for you to see along with their caretakers who can answer your questions. Some of our guests will be real owls, nocturnal insects, and more! Don't forget to see our Owl Butterflies in flight as the sun goes down! Price is per person. Children ages 2 and under are free.

Tuesday, October 1, 8, 15, 22, 29
4:30 to 7 p.m.
\$3 members; \$6 nonmembers
Butterfly House
BH staff

Fall Celebration (SNR)

For families with children ages 4 and older. Come join in on the fall fun at Shaw Nature Reserve. Enjoy the crisp air and beautiful fall colors as you travel from station to station learning about nature's way of preparing for winter. Pick up your map at check-in and visit numerous stations set up around the Dana Brown Overnight Center and the wetlands. Activities will include craft stations, hands-on discovery areas, and fun games! Price is per child. Ages 3 and up are free. With support from the Missouri Department of Conservation.

Saturday, October 19
2 to 4 p.m.
\$5 members; \$8 nonmembers
Adlyne Freund Center
SNR Staff

Booterflies (BH)

For families with children ages 2 to 12. Experience a fabulous, non-scary Halloween family fun evening at the Butterfly House. Wear your Halloween costume and play insect-inspired games. Ages one and under are free.

Friday, Saturday, and Sunday, October 25, 26, and 27
4:30 to 7 p.m.
\$13 adults and \$18 children members; \$15 adults and \$20 children nonmembers
Butterfly House
BH staff



SPECIAL EVENTS

Green Homes Great Health Festival (MBG)

Help your family live green—and live healthier! Celebrate sustainable living and explore ways to maintain a healthy you and a healthy planet. Bring your home improvement ideas and talk with over 100 green product and service exhibitors. Talk one-on-one with experts about a variety of health issues and cancer prevention tips. Enjoy local foods, live music, solar car races, free health screenings, and shopping the Green Marketplace. Help paint a Metro bus, and learn from expert presentations and demos about the many ways that plants, air, water, soil, and energy sustain our homes, our health, and our living Earth. For more information, visit www.mobot.org/greenhomesfest

Saturday, September 28
9 a.m. to 4 p.m.
Entrance fee included with Garden Admission
Garden's East Parking Lot and Grounds
Presented by EarthWays Center of the Missouri Botanical Garden

Supper with Santa (BH)

For families of all ages. Have dinner with Santa in the Butterfly House! Your ticket includes a spaghetti dinner, a picture with Santa, butterfly hunt night walks through our Flight House, face painting, ornament making, storytime, and cookies with hot chocolate. Guests will also receive a commemorative bookmark after posing in the Fun Photo Events photo booth. Ages one and under are free.

Saturday, November 30 or Sunday, December 1 or Saturday, December 7 or Sunday, December 8 or Saturday, December 14 or Sunday, December 15
4:30 to 7 p.m.
\$18 adults and \$13 children members; \$15 adults and \$20 children nonmembers
Butterfly House
BH staff



OVERNIGHTS FOR ADULTS AND FAMILIES

Man vs. Wild: A Father-Son Overnight Adventure (SNR) **NEW!**

For fathers and their sons 8 years and older. Have you ever wondered how you might survive if stranded in the wild? Join Reserve and Missouri Department of Conservation staff for this fun-filled Man vs. Wild Overnight and learn tips and tricks about navigation, tracking and trapping, fire building, and using a bow and arrow. Price per person.

Friday and Saturday, December 6 and 7
7 p.m. (Fri.) to 3 p.m. (Sat.)
\$55 members; \$65 nonmembers
Dana Brown Overnight Center
SNR and MDC Staff

Basket Making Overnight (SNR)

For adults only. This is an overnight basket-weaving class in which you choose the basket(s) you will make. Register by December 6, allowing time for you to choose from a list of baskets (with pictures and levels of difficulty) so that we may order the materials. An email will be sent to you of the baskets you can choose from. Beginners are welcome. The cost includes meals and a dormitory-style overnight in a delightful historic log lodge. You will pay the instructor separately (from \$10 to \$25 per basket) for the materials you order in December.

Friday and Saturday, January 10 and 11
7 p.m. (Fri.) to 3 p.m. (Sat.)
\$75 members; \$90 nonmembers
Dana Brown Overnight Center
Linda Brown

Maple Syrup: Tree to Table Overnight (SNR)

For adults and families of children ages 6 and older. Have you ever thought about making your own maple syrup? Many folks who have access to maple trees have considered making syrup, but most never follow through. This fun and educational overnight program will tell you everything you need to know to start making your own maple syrup. While the process can be time consuming, it's surprisingly simple. Lodging is dormitory style in our historic log lodges. The overnight will include a night hike on Friday, followed by a campfire with s'mores (weather permitting), and a pancake breakfast on Saturday morning with real maple syrup. After breakfast, there will be a step-by-step demonstration of the process required to make your own syrup. Price per person.

Friday and Saturday, January 17 and 18
7 p.m. (Fri.) to noon (Sat.)
\$50 members; \$60 nonmembers
Dana Brown Overnight Center
Stephen Bean



It's Your Weekend Overnight (SNR)

For adult men and women. Are you looking for time to yourself to read, paint, walk, or write? Bring your books, hiking boots, camera, paints, bicycle, binoculars, laptop, or whatever! Spend all the time you want doing what you want, either by yourself out on the trails, or perhaps with others in front of a fire. An optional class will be offered Saturday morning by artisan Barbara Johnson: Needle Felted Cookie Cutter Pins. Detailed description will be sent to participants beforehand. All materials will be supplied for an additional \$20 fee (to be paid to teacher directly in class). Accommodations are dormitory style in our historic log lodges. All meals provided. An optional night hike is offered. Price is per person.

Saturday and Sunday, February 1 and 2
9 a.m. (Sat.) to 11 a.m. (Sun.)
\$85 members; \$102 nonmembers
Dana Brown Overnight Center
Helen McCallie



Scout Overnights at the Garden (MBG)

Scout Overnights provide a unique opportunity for you and your group to experience the Missouri Botanical Garden at night. Spend a fun-filled evening enjoying activities based on the wonders of nature and the world around you right here in our own backyard. Work toward badge requirements, explore the Children's Garden, and discover the fascinating world of how plants and animals live at night!

September 28-29: Wolf and Bear

October 12-13: Junior and Cadette

Check in 5:30 - 6 p.m. (Sat.), program concludes at 8:30 a.m. (Sun.)

\$45 per person, for scouts and adults; one adult per five scouts required

Includes dinner, snack, breakfast, and activities

Registration forms available at <http://www.missouribotanicalgarden.org/learn-discover/youth-families/scout-programs/scout-overnights.aspx>

Contact: scoutprograms@mobot.org



Calling All Scout Leaders!

Join us at the Missouri Botanical Garden, Shaw Nature Reserve, or Butterfly House for a variety of programs and overnights for scouts. Experience fun, challenging, and inspiring outdoor programs that align with badge and award requirements. Dig into soil, become a naturalist, learn about flowers, trees, or water conservation; these are just a few of the topics offered. Find a program that is perfect for your group: click on Learn and Discover at www.missouribotanicalgarden.org



CLASS INFORMATION/POLICIES

Location of Classes: Site maps are available at www.mobot.org/classes. Please refer to your confirmation of registration that you receive via e-mail or mail for details on where each class is being held.

Class Information and Material Lists: Individual class details and material lists are available online at www.mobot.org/classes within each individual class listing.

Wait List: If your confirmation states that you are on the wait list, you will be called or e-mailed if an opening occurs.

Accommodations and Accessibility: If you are in need of an accommodation, please call (314) 577-5140 at least two weeks prior to the date of the class. We will do our best to meet your needs.

Cancellations/Refunds:

- For cancellations more than five business days prior to the class, a full refund, minus a \$5 processing fee (or cost of class if less than \$5), will be issued, unless otherwise noted. Refunds cannot be issued for missed classes or cancellations less than five business days prior to class date. A business day is defined as Monday through Friday 8:30 a.m. to 5 p.m., no Saturdays, Sundays, or federal holidays. Please consider your payment a donation to the Garden.
- For overnight program refunds, cancellations must be made at least two weeks prior to the program. Refunds cannot be issued for cancellations less than two weeks or missed programs.
- Many classes will allow you to send an alternate participant if you are unable to attend. Please

contact the appropriate site prior to sending an alternate.

- If the Missouri Botanical Garden must cancel a class, you will be notified and receive a full refund.
- Participants are encouraged to register early, as programs with insufficient registration, depending on type of class, will be canceled approximately five days before the scheduled start date (overnights, two weeks). A full refund will be issued in this case.
- A transfer to another class is handled as a refund and is subject to the above policy.

Inclement Weather: Participants should come dressed for the weather. Most classes are held rain or shine. If we are unable to hold a class due to inclement weather, you will be notified, and receive a full refund.

Dismissal Policy: The Missouri Botanical Garden is committed to offering the highest quality educational experience to all its students. To ensure a quality experience, the Garden reserves the right to dismiss any participant for any reason without refund.

Questions: For questions and registration process information on classes at all sites please call (314) 577-5140 or e-mail classes@mobot.org.

Give the gift of knowledge! Education Gift Certificates available! Call Carol at (314) 577-9506.

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To register go to www.mobot.org/classes

REGISTRATION FORM

Name: _____ Gender*: _____

Child's name and age (if applicable): _____ Gender*: _____

Address: _____ City/State/Zip: _____

Home Phone: _____ Work Phone: _____

E-mail: _____

* Gender information needed only for overnight programs.

Course Name	Attendee	Location	Date	Fee

PAYMENT OPTIONS (please check one):

Please check one: Member Nonmember Staff Volunteer

Missouri Botanical Garden Member ID: _____

Payment Method: Check Visa MasterCard Discover

Card #: _____

Exp: _____ 3-Digit Verification Code: _____

Signature: _____

Mail to:
 Missouri Botanical Garden, Education Division, P.O. Box 299, St. Louis, MO 63166

Notice: Classes may be photographed and/or recorded for use by the Garden in its communications efforts. Students wishing not to be photographed or recorded should inform the photographer.



MISSOURI BOTANICAL GARDEN
4344 Shaw Boulevard • St. Louis, MO 63110

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U.S. POSTAGE PAID
ST. LOUIS, MO
PERMIT NO. 1325

CLASSES ARE

ALSO OFFERED AT:

**Commerce Bank Center for Science
Education**

4651 Shaw Blvd.

St. Louis, MO 63110

Shaw Nature Reserve

Hwy 100 at I-44 (exit 253)

P.O. Box 38

Gray Summit, MO 63039

(636) 451-3512

Sophia M. Sachs Butterfly House

15193 Olive Blvd., Faust Park

Chesterfield, MO 63017

(636) 530-0076

(Maps are available online.)

**REGISTRATION
STARTS AUGUST 1.
SIGN UP ONLINE AT
MOBOT.ORG/CLASSES**