Oudiffacks

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October, November, December 2016



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SAN DIEGO BOTANIC GARDEN PHONE EXTENSIONS

SDBGarden.org

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Monday − Friday, 9 AM − 5 PM

Monday – Friday, 9 AM – 5 PM	
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MISSION STATEMENT: To inspire people of all ages to connect with plants and nature.

On the cover: Opuntia (Opuntia littoralis) Photo: Rachel Cobb

The Garden Shops

Open 10 am – 4 pm daily (Closed on Christmas Day)

Holiday Hours:

Thanksgiving Day, 10 am - 4 pm Garden of Lights: 10 am - 7 pm

Membership Discounts:

10% to Family, Individual and Steward level members 20% to Patron and higher level members

The holidays are the best time of year to take advantage of your membership discount benefits at the Garden Shops. With cooler days and longer nights, it's the perfect time to refresh your garden plantings.

Be sure to browse the Shops' unique, garden-inspired gifts and excellent selection of nursery plants, succulent wreaths, topiary and mixed succulent gardens.

Don't miss out on our terrific Thanksgiving Day book sale! Buy one book at full price and receive a 40% discount on a second book of an equal or lesser price.



If you'd like to learn more about the history of the Kumeyaay and other tribes of San Diego County, we recommend: "Strangers in a Stolen Land" by Richard Carrico who tells the story of the native peoples of San Diego County from 1850 through the 1930's; and "Native American Medicinal Plants" by anthropologist Daniel E. Moerman who describes the medicinal uses of more than 2700 plants. Both are available at the Garden Shops.

Give to the Garden and Get a Tax Break!

- Stocks held more than a year can be donated to the Garden. You receive an income tax deduction for the full market value AND pay no capital gains tax. Transfer can be done electronically. Lower your taxes while helping the Garden!
- The IRA charitable rollover is now permanently allowed by law. If you are 70 ½ or older you can make a direct gift of up to \$100,000 to the Garden without having to recognize the income. Contact your tax professional to learn more about this and other ways to make a charitable donation while reaping tax benefits.
- Consider naming the Garden for a specific amount, asset or a percentage of your estate. Be sure to use our legal name, Quail Gardens Foundation, Inc. [Tax ID 95-6120581] if you name us in your will, trust or estate plan. Let us know so we can recognize you as an Arbor Vitae Guild Member.

Call Development Director Carolyn Zollars at 760/ 436-3036 x216 if you have questions about the many ways you can support the Garden.



Message from the President

Julian Duval President/CEO

Construction begins on the Dickinson Family Education Conservatory

On August 7th we celebrated the beginning of construction for this important addition to the San Diego Botanic Garden. The event was meant as an opportunity to thank all of those who have supported the project and show them we are on our way to making the Conservatory a reality.

It was also an opportunity to encourage those not already involved with the project to catch the excitement for what a great addition this will be to the visitor experience and educational purpose of SDBG. It is important to still grow our family of supporters. As of this writing we still have approximately \$600K to raise to reach our \$5.3M goal, having raised \$4.7M.

Creating a large indoor space for educational programing and one that would help foment collaboration with the Encinitas Union School District was the original inspiration for this project. But it really became so much more exciting when we decided to not only design a space for people but one for plants as well. So we came up with an absolutely unique plant concept for plant exhibition with our "Plant Chandeliers."

To our knowledge no one has ever interpreted the beauty and diversity of tropical forest flora by suspending branches festooned with the incredible assortment of plants that grow on trees in tropical forests. The "Plant Chandeliers" will either be raised above guests when the main Conservatory room is used for a program or lowered to eye level if the room is used for the casual visitor.

Plants that find their support on the branches of trees (collectively called epiphytes) are the most iconic vegetation of the world's tropical forests. They also create their own unique biotic communities that have over the last 30 years or so become known as the greatest storehouses of genetic biodiversity. Plants of the tropical forest canopy will be a delight to exhibit and interpret for their diversity and adaptation.

The Dickinson Family Education Conservatory is also meant to be integrated with the Hamilton Children's Garden and one of its most direct ties is it's Teaching Kitchen (an important element still waiting for a donor to have their name on it). It will be right across from the Incredible Edibles garden in the HCG. We know that if children can see where their food actually comes from, and also be involved in its preparation, children will develop healthy eating habits. The demonstration kitchen will also be used for adult classes.

At the celebration on August 7th we shared these important elements that will make up in the Conservatory. It was a success in thanking those generous donors who have already supported the project and it also energized others to get involved. A special thanks was made to the Ronald C. and Elizabeth M. Dickinson Foundation, the Leichtag Foundation, and Campaign Chair Jim Farley, as well as the entire leadership council.

The most frequently asked question at the ceremony was when we expect to open the Conservatory to the public. Well, we have lots of work yet to do. The weather over the coming winter can influence our progress but we hope that we can set our grand opening celebration for the summer of 2017.

I hope, if you have not already become a part of this exciting project, you will! The Conservatory will inspire people of all ages to come and connect with plants and nature to better understand and appreciate the wonder and beauty of the natural world around them.

To see how you can help complete our Conservatory funding, please contact Carolyn Zollars at 760/436-3036 x216.



Ethnobotany of the Kumeyaay on Native Plants & Native People Trail

Offering a window into how San Diego Natives Used Local Plants to Survive & Flourish

By Dr. Kevin Curran Adjunct Professor, University of San Diego . EthnoHerbalist.com

Lumeyaay natives lived in the San Diego region long before Juan Cabrillo sailed his Spanish galleon into San Diego Bay. By 1542, the Kumeyaay were settled throughout San Diego County as well as Imperial Country to the east and Northern Baja to the south.

These Native Americans lived well in Southern California and they did so by utilizing the region's natural resources. The Kumeyaay caught fish, hunted animals, collected shellfish and used native plants for medicine, food, drink and shelter.

Ethnobotany of the Kumeyaay

Ethnobotany is defined as the study of the interactions between people and plants.

For the Kumeyaay people, their entire existence hinged on their ability to utilize the plants of the region. Every facet of the Kumeyaay way of life - including food, shelter, clothing, weapons, and art - was intertwined with the local flora.

So...what were the regional plants that became integral to Kumeyaay culture?

Below, we've described some of the plants used by the Kumeyaay. Each of these plants can be seen growing along the *Native Plants and Native People Trail* at the San Diego Botanic Garden.

Opuntia (Opuntia littoralis)

When gathering the fruits from this cactus species, the Kumeyaay would consume some of the fruit immediately, eating the pulp with or without seeds, or making it into a drink. Gatherers also processed both fruit and seed for later use, drying out the plant material in the sun.

Dried seeds, or seeds and dried pulp together, were ground into meal and eaten as mush or flattened into cakes. The Kumeyaay also ate the young cactus pads, fried or boiled. The spines of this cactus were used to create tattoos.





Shaw's agave (Agave shawii)

Leaf fibers from this agave, also known as coast agave, were used to make shoes, clothing and rope. The large flower stalks were roasted and eaten.

Del Mar manzanita (Arctostaphylos gladulosa spp. crassifolia)

The Del Mar manzanita is the rarest of the six recognized subspecies of Eastwood Manzanita, *Arctostaphylos gladulosa*. This rare plant is only found along bluffs in San Diego and parts of Northern Baja.

Throughout the Californias, native peoples used the fruit of this shrub to make a drink. Many Kumeyaay still gather the fruits for this purpose. The leaves were also made into a tonic for kidney ailments.

This species is part of the Heather or *Ericaceae* family.

Yerba Santa (Eriodictyon trichocalyx or crassifolium)

Two species of yerba santa grow in regions of the coastal scrub, chaparral and mountain biomes of the Kumeyaay region. *E. trichocalyx* has darker, shiny, sometimes sticky leaves. *E. crassifolium* features lighter, felt-textured leaves. Both varieties have been employed medicinally, generally in similar ways. Throughout the Californias, native peoples used yerba santa for treating colds, sore throats and for general aches and pains. This *Boraginaceae* species was also highly regarded by the Spanish, who gave it the name of yerba santa (holy herb).

Surviving descendants of the Kumeyaay still use this plant for colds. A handful of leaves and stems are boiled in about three cups of water. The decoction is drunk three times a day while cold symptoms persist.



California live oak (Quercus agrifolia)

This evergreen oak, also known as coast live oak, was considered the primary food source of the Kumeyaay. The Kumeyaay people would eat these acorns every day. Live oak acorns were gathered intensely in November and December.

If there was a good harvest, the acorns might last for a year. Tannins had to be leached from acorns prior to consumption. The acorns were sometimes toasted and grinded into a powder, to make 'coffee.'

Coastal scrub oak (Quercus dumosa)

California natives were not fond of the acorns from this oak species. Acorns from the live oak were much preferred. However, if coastal scrub oak was the only option, then natives would eat these acorns.

The Kumeyaay did appreciate the hard wood of the coastal scrub oak for firewood and construction material.

Toyon (Heteromeles arbutifolia)

The Toyon is a tree in the *Rosaceae* family. Native Californians used this plant for food, medicine and tool making material. To remove bitterness and astringency, foragers allowed the berries to fully ripen. The ripe berries were then harvested and exposed to heat.

This process softened the taste.

Coastal sagebrush (Artemisia californica)

California sagebrush is a species of North American shrub in the sunflower family (*Asteraceae*). Although *Artemisia californica* is a sagebrush, as opposed to a true sage, it can still be used as a spice in cooking, or made into a tea.

The Kumeyaay used this aromatic herb for a number of medicinal applications. They prepared the leaves and stems into an infusion to wash sores and wounds. They also mixed this bitter sagebrush tea with *Salvia* (sage) for fevers.

Coastal sagebrush was also used by women of the Cahuilla and Tongva cultures to alleviate menstrual cramps and ease labor. Apparently, the plant stimulates the uterine mucosa, thereby quickening childbirth.



California buckwheat (Eriogonum fasciculatum)

California buckwheat is a common shrub throughout southwestern United States. This plant grows on scrubby slopes and in chaparral habitats. Many southwestern Native American groups used parts of this plant for medicinal uses, including the treatment of headache, diarrhea, and wounds.

The Kumeyaay used both the roots and the flowers to relieve digestive disorders (diarrhea). The fresh roots of the buckwheat were pounded on a metate, then cooked until the roots turned a reddish color.

Lemonade berry (Rhus integrifolia)

Despite the inviting name, the berries from this plant are not commonly used to make lemonade flavored drinks. Many plants within the *Rhus* genus are considered toxic. The family, *Anacardiaceae*, also contains poison oak and mango. Allergic reactions may result from skin contact with sap from some of the *Rhus* genus.

An oil can be extracted from lemonade berry seeds. This oil is employed to manufacture bright burning candles.

Jojoba (Simmondsia chinensis)

Jojoba is the sole species of the family Simmondsiaceae.

Native Americans first discovered the importance and versatility of jojoba. During the early 18th century, Jesuit missionaries along the Baja coast observed natives heating jojoba seeds, then grinding them with a mortar and pestle to create a buttery paste. The paste was then applied to the skin and hair to heal and condition.

The O'odham people of the Sonoran biome treated burns with a similar paste made from the jojoba nut. Kumeyaay hunters ate jojoba seeds on the trail to keep their hunger at bay.

We hope this list provides a glimpse into the way the Kumeyaay culture relied on plants to survive. To see all these native plants growing in their natural environment, stop by and visit the San Diego Botanic Garden.

Ethnobotanical anecdotes used in this article derive from multiple sources including:

Wilken, Michael Alan. An Ethnobotany of Baja California's Kumeyaay Indians. Diss. San Diego State University, 2012.

50 Common Edible and Useful Plants of the Southwest, Western National Parks Association, 2009.



Seeds of Wonder • Hamilton Children's Garden

For Children Questions regarding Seeds of Wonder and the Hamilton Children's Garden? Please contact Susanne at SOW@SDBGarden.org or call 760/ 436-3036 x222

Upcoming Events



Family Fall Festival Saturday, October 29 10 am - 2 pm

Come to the Garden and celebrate the season with fall themed activities, like pumpkin painting, Halloween crafts, and a petting zoo.

Little Catbird will perform a feel-good, toe tapping, interactive music show that's fun for the whole family. And the OTruck will offer a variety of farm-to-table entrees.

Children are invited to wear their favorite Halloween costume and participate in a costume contest (Sorry, no adults in costumes please). Don't forget to stop in and have a photo taken with the Big Pumpkin! Visit our website for detailed information and event schedule, SDBGarden.org/family-fall.htm

Cost: Free with paid admission or membership. Small fee for crafts and some activities.



Garden of Lights December 3 - 23 & 26 - 30 5 - 9 pm

Activities for children will be offered during Garden of Lights. For detailed information on this event, see page 11.



Ongoing programs for children

Please check our website for a detailed description and schedule of ongoing programs at SDBGarden.org/seeds wond.

Cost: Free with paid admission or membership.

Birthday Parties for Children

On Saturdays and Sundays, we reserve the picnic area in Seeds of Wonder and provide special activities like plant potting, rock painting, easel painting and bubble play for birthday parties. Please visit our website at SDBGarden.org/birthday.htm for detailed information, or contact Susanne at SOW@SDBGarden.org, if you would like to book a party.



Information and tour request forms for self-guided and docent guided group visits can be found on our website at SDBGarden.org/tours.htm



Educational Tours Engage Title One Students At San Diego Botanic Garden

"You taught me that you should protect nature." Collin

"One last thing thank you for letting us play in the tree house." Josh

Thank you for all your support! Trenton

Thanks to a generous Environmental Champions Grant from SDG&E, more than 1,100 San Diego County Title 1 School students were able to visit our 37-acre botanic wonderland during the 2015/2016 school year. Trips here are particularly impactful for these students, many of whom have not traveled outside of their urban neighborhood prior to this visit.

The Garden offered 41 guided educational tours to Grade 1-5 students that focused on native plants and native people, pond study, adaptation, and many other areas. Students also had an opportunity to eat lunch, enjoy free play time in our Hamilton Children's Garden, and be inspired by plants and the natural world around them during their time here at the Garden.

For 2/3 of these students, not only were the admission fees covered by the SDG&E grant, but also (most importantly) bus transportation. Title 1 is a federal program to identify and provide funding to schools with a high percentage of students from low income families. Without the SDG&E grant, these schools would not be able to fund field trips to our Garden.

The thanks and hugs from students as they boarded the bus to return to school were more than enough reward for our staff and volunteers who planned, organized and led the tours. We also received hundreds of 'thank you' notes and drawings from the children expressing their appreciation and underscoring the success of this terrific program. One student asked, "What is a stream?" after the docent referred to the water that runs through the Hamilton Children's Garden as she had never seen one.







Science in a Satchel a Hit with 2nd Graders!

Thanks to a generous grant from the Carlsbad Charitable Foundation in partnership with the Carlsbad Education Foundation, the San Diego Botanic Garden presented an exciting hands-on science experience to all second grade students in the Carlsbad school district. The three-stage program involved pre-visit activities, and a follow-up engineering component, but the highlight was the class visit to SDBG. The students explored the desert and the rainforest gardens to learn about plant adaptations in these environments. Divided into small teams of 4-5 students, they searched for characteristics to record in a science notebook. The young scientists did science experiments: measuring and pouring water over a desert plant and a rainforest plant and comparing results, and measuring the effect of color on sunlight absorption.

Using their new knowledge, each team then built a plant to survive in desert and one adapted to rainforest. Many thanks to parents and Garden volunteers who made this program such a success.

"Thanks for teaching me about exotic plants and the Kumayaay Indiand (sic).

Keep doing what you do!" Damien

"Once I got home I told my whole family about different types of flowers I learned there (sic)." Pelilah

The Almond Tree

Dr. Ori Fragman-Sapir
Head Scientist
The Jerusalem Botanical Gardens

Winter is coming soon, and almonds will soon be in bloom. We can all revel at their beautiful blossoms, and later, from their delicious almonds. The almond is a small ornamental tree, well-suited for small gardens, forestry, and planting on terraces.

The almond got its Hebrew name (*Shaked*) from its winter flowers – as though it were working (*shoked*) to bring forth its beauty before all the other local spring flowers. It is the first tree to flower – and so it has become integral to that festival of trees – Tu B'Shvat.

The almond goes by various names: commonly, it is known as 'almond'; in Hebrew – shaked mazui; while its Latin name is *Amygdalus communis*. It is a member of the rose plant family, which includes many other well-known plants, such as the plum, pear, cherry, apple, strawberry and rose.

The almond has been cultivated in Israel since ancient times. It is mentioned in the ancient texts, but was not included among the Seven Species. The tree was one of the only crops which can be grown in the mountainous terraces alongside olives, figs, pomegranates, and grapes.

The genus Amygdalus includes some forty species, ranging from China to Italy, according to Professor Daniel Zohary. Most almond species are genetically and visually similar and can be crossed. In nature, isolated populations have remained genetically distinct. This was true until the tree's cultivation, when cultivars were inter-bred with wild populations, resulting in new populations with intermediate traits. This phenomenon can be seen all throughout the genus's geographic distribution, including Israel at The Jerusalem Botanical Gardens.

Flowering and Pollination in Almonds

The almond flower has five large petals, which attract hungry insects. The flower provides insects food through pollen and nectar. Some of the pollen sticks to the insect, which then pollinate other almond flowers. The almonds cannot self-pollinate, meaning, that a flower can identify the source of the pollen and rejects pollen from the same plant. Thus, a lone almond tree would not set fruit.





Almonds bloom before setting out leaves. Professor Avi Shmida believes the early blooming almonds avoid competition with other flowers over pollinating insects. However, such flowering behavior entails risk because its flowers can be ruined by winter storms. Such a risk could only be taken by a long living plant. One year it may lose its flowers in a storm, but in others it will have an advantage in pollinating and setting its fruits.

Who knows how many flowers an almond tree has?

In surveys conducted in The Jerusalem Botanical Gardens, thousands of flowers were counted on small trees, tens of thousands on others, and up to 250,000 flowers on larger trees! However, only a relatively small number of fruits set. This is because flowers are easily dislodged by storms and severe weather, and even are shed intentionally. The almonds only develop the most successful of embryos.

Uses for Almonds

The almonds we eat are actually the seeds, after removing the fruit. Botanically, the entire fruit is known as drupe – a single-seed fruit covered by a fleshy exterior (such as an almond or an olive). Almond seeds are usually eaten dry, but early in the season some prefer to eat the entire green fruit. Seeds from wild almonds are usually bitter as they contain amygdalin, a compound in the fruit which metabolizes into the poisonous cyanic acid (so do not eat too many bitter almonds!) Cultivars have a smaller acid content, and so taste sweeter. They are healthy and nutritious, containing proteins, fat, vitamins, and minerals.

CELEBRATING THE CONSERVATORY, CREATING A LEGACY

Dickinson Family Education Conservatory

Commemorative Tile Program

The Conservatory will help grow **Education**, **Engagement** and **Conservation** year-round in a beautiful state-of-the-art glass facility.

By purchasing a commemorative tile you can honor or pay lasting tribute to a loved one by having their name etched onto a tile permanently displayed on a column outside of our new Conservatory. Your purchased tile will also show support for the Conservatory and the Garden's mission: to inspire people of all ages to connect with plants and nature.

Be a part of the lasting legacy of the San Diego Botanic Garden today!

CVV code 3 digits on back of card



Jim and Kelly Sanders and family thank the Garden for many happy memories!

For more information, please contact Carolyn Zollars, Director of Development at czollars@sdbgarden.org or 760/436-3036 x216.

Samples Only

In loving memory of Edward & Margaret Stedfast Our wonderful parents Both enthusiastic gardeners & avid nature-lovers

RESERVE YOUR TILE TODAY - MAKES A GREAT GIFT TOO!

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Check the box for the Tile of Your Choice: Evergreen Tile (\$250 each) Heirloom Tile (\$500 each) Perennial Tile (\$1,000 each) Oasis Tile (\$5,000 each)	Names or Message For Your Tile: Evergreen Tile Up to 3 lines with 26 characters max. per line Heirloom Tile Up to 4 lines with 26 characters max. per line Perennial Tile Up to 5 lines with 26 characters max. per line Oasis Tile Up to 7 lines with 26 characters max. per line
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Card Number	To order online go to:
Exp. Date (Month/Year)	sdbgarden.org/conservatory-tile.htm



Upcoming Events

Sculpture in the Garden Now – April 2017 • 9 am – 5 pm, Daily

This unique exhibition showcases 53 sculptures from 32 talented artists set against the beautiful backdrop of the Garden's lush and natural 37 acres. Curator Naomi Nussbaum Art & Design has orchestrated an eclectic exhibition ranging from functional garden artwork to large abstract work, with an emphasis on diversity of media and scale. Take a self-guided tour with the Garden's Sculpture Map. All sculptures are for sale, with a portion of the proceeds benefitting the Garden. For participating artists, visit SDBGarden.org/sculpture.

Cost: Free with paid admission or membership.

San Diego Botanic Garden Orchid Clinic Saturday, October 1 • 10 am – 3 pm

Participants can choose one or all of the four Great Education Sessions. Each session is presented by local expert orchid growers who will impart valuable, easy to use information on how to select, grow and care for orchids.

10 cm Alex Nadzan, Palomar Orchid Society – "Orchid Basics 101"

11 am Nico Goosens, Lico Orchids and Flowers – "How to Buy Orchids"

1 pm Deborah Halliday, San Diego County Orchid Society

"Maintaining, Repotting and Reblooming Your Phalaenopsis Orchid"

2 pm Paul Tuskes, San Diego County Orchid Society "Growing Orchids Outdoors in Southern California"

Cost: Free with paid admission or membership.
Free for AOS members (must show card at Welcome Center).

34th Annual Fall Plant Sale Saturday & Sunday, October 15 & 16 10 am – 4 pm

- Larabee and Benefactor Society Members Only Pre-Sale: October 15, early access at 8 am Members at basic levels may renew early and upgrade to the \$150 Steward level to enjoy access to the best selection. To renew by phone call Josh at 760/436–3036 x214.
- Members Only Pre-Sale, all levels: October 15, 9 10 am
- Monday, October 17, 9 am 1 pm
 All remaining plant stock goes on sale for 1/2 price

*NEW: \$5 admission on Sunday, October 16 (all day) and Monday, October 17 (until 12 noon)

Plant donations from over 100 local growers, wholesalers, retail nurseries, and individuals make this one of the most interesting and diverse plant sales of San Diego County. Plant selections include California natives, cacti, succulents, bromeliads, fruit trees, and sub-tropicals. Visit our Botanic Attic for garden-related items. Also be sure to check out our huge selection of used books and homemade goodies such as specialty jellies. Enjoy an opportunity drawing at our popular sit-down Bakery Shoppe, which serves cakes, cookies, pies, and coffee.

Cost: Free with paid admission or membership.

NOTE: WE ENCOURAGE YOU TO BRING YOUR OWN RED WAGONS OR SHOPPING CARTS TO THE GARDEN TO BRING YOUR NEW TREASURES HOME. IT WILL MAKE CHECK OUT FASTER AND EASIER!

Help Make the Fall Plant Sale a Success

The success of our plant sale depends upon the generosity of members from the community. You can help in the following ways:

- Donate plants or gently used garden-related items, help underwrite the event, or participate in set-up on October 10 – 14. Contact Stacy Fattaleh at 760/207–4259 or sfmermaid@cox.net for more information.
- Bake a goodie for our Bakery Shoppe! As always, we need cakes and pies to sell by the slice, and large yummy cookies. Please bring your baked goods to the Ecke Building on Friday, Saturday, or Sunday. If you have any questions call Thelma Montag at 760/436–4601.
- Bring us your books! Let your surplus books rejoin the world's circulation by donating fiction, non-fiction, hard cover, soft cover, pocket and audio books and/or magazines, cassettes, CDs, VHS movies and DVDs. Bring your donations to the Administrative Offices during regular business hours from 9 am 5 pm Monday through Friday. Please NO encyclopedias or Reader's Digest condensed books.

All Fall Plant Sale supporters who contribute a minimum of \$200 in cash, plant material valued at \$200, or help at least 20 hours with the set-up will be invited to attend a special VIP Pre-Sale/ Wine and Cheese Reception, followed by an exciting live auction that features unusual collector plants. Thank you for your support!

Cactus and Succulent Show and Sale Saturday, October 22, 9 am – 5 pm & Sunday, October 23, 10 am – 4 pm

The Palomar Cactus and Succulent Society will hold its annual plant show and sale at the San Diego Botanic Garden on the fourth weekend in October. Plant and pottery vendors will also be selling unique items throughout the weekend. Guests attending the show are invited to follow along as judges comment on entries and make their selections on Saturday from 12 - 3 pm. Winners will be available for viewing both days.

Cost: Free with paid admission or membership.

Garden of Lights December 3 – 23 & 26 – 30, 5 – 9 pm

After the sun goes down, the Garden is transformed into a dazzling winter wonderland with over 125,000 sparkling lights illuminating the Garden for a magical holiday experience. Many of these lights are LED, which are much brighter than regular lights.

Numerous activities include horse-drawn wagon rides, holiday crafts, marshmallow roasting, visits with Santa, live music, hot mulled wine and refreshments. Snow 'falls' on selected nights. For more information, visit our website SDBGarden.org/GOL



Admission (Sunday – Thursday):
Members \$10; seniors, active military, and students \$10; non-members \$15.
Children ages 3–12, \$6.

There will be additional fees for some activities.

Admission on Premium Nights (Friday and Saturday): Members, Seniors, Military \$10, Non-Members \$20, Youth \$5



The Garden of Lights is presented by the County of San Diego.



Fall Classes

Build Your Own Hydroponic Winter Garden

Saturday, October 8 9 am – 12 pm

Learn the principles of the hydroponic wick method by building your own sustainable garden to take home. Instructor: Alex Kallas of AgPALS.

Cost: Members \$80, non-members \$96. Fee includes materials. Please register by September 30.

Beginning Mosaics – Butterflies and Dragonflies for the Garden Saturday, October 8 9 am – 4 pm

Come and enjoy a relaxing day creating art for your garden with friends. In this beginning mosaic class students will create a butterfly or dragonfly using beautiful stained glass, mirror glass, iridescent glass, beads, and glass gems. Participants will learn about tools and how to use them properly, how to cut glass, which adhesives to use how to prep the substrate, how to mix grout, and how to hang the piece. All materials and tools will be provided. Instructor: Marsha Rafter.

Cost: Members \$75, non-members \$90. Plus a \$60 materials fee paid directly to the instructor at the class. Please register by September 30.

New Class! HDR Photography Effects Saturday, November 5 9 am – 1 pm

Learn how to shoot HDR from photo-tipster Bob Bretell. HDR (high dynamic range) is an amazing photography technique that is ideal for any subject matter including flowers, portraits, architecture and still life. The process is easy to learn - all you need is a camera capable of manually adjusting exposure, a computer and an HDR processing program (free download to try). Learn how to get perfect exposure under in all types of light and take unique and stunning photos that will amaze both friends and art critics. Bob will provide multiple demonstrations outdoors and in class and students will have plenty of shooting time. Students will practice the fundamentals of HDR and a photo critique will be provided at the end of class. For more examples of HDR visit www.Photo-tipster.com. Instructor: Bob Bretell

Cost: Members \$59, non-members \$71. Please register by October 28.

Register Today! This class fills up quick! Living Wall / Vertical Garden

Saturday, November 5 9 am -12 pm

Learn the basics of planting a living wall. We will be planting a 10"x20" wall of succulent varieties. Living walls can be used exterior or interior with multitudes of colors, textures and sizes. The possibilities of striking patterns and unique designs are endless.

Instructor: Mary Lou Morgan.

Cost: Members \$30, non-members \$36 plus \$75 per student materials paid directly to the instructor at the class. Please register by October 28.

Fresh Start: How to use Soul Collage to Discover Your Hidden Creativity

Sunday, November 6 9:30am – 4pm

Soul Collage is a fun, easy way to use pleasing pictures to create collaged cards that can be used to tap into the creative mind. Anyone can do it. Discover how the poetry of images can uncover hidden resources and activate key brain areas to find creative solution you didn't know you knew. Instructor Mary M. Mulvihill, Ph.D.

Cost Members \$75, non-members \$90. Please register by October 28.

Succulent Frog

Tuesday, November 8 9 am – 12 pm

Take home a charming succulent frog that you make yourself in this class taught by the SDBG Succulent Wreath Team.

Cost: Members \$50, Non-Members \$60. Fee includes materials. Please register by November 4.

Introduction to Zentangle Saturday, November 12 1 – 3 pm

The Zentangle method is an easy to learn, relaxing, fun way to create beautiful images by drawing structured patterns. While no art experience is necessary, Zentangle increases participant's focus and sense of well-being. Instructor: Janet Masey, Certified Zentangle Teacher.

Cost: Members \$40, non-members \$48, plus a \$10 materials fee paid directly to the instructor at the class.
Please register by November 4.

Succulent Turtle

Thursday, November 17 9 am – 12 pm

Take home a charming succulent turtle that you make yourself in this class taught by the SDBG Succulent Wreath Team.

Cost: Members \$45, Non-Members \$54. Fee includes materials. Please register by November 11.

Block Prints and Watercolor

Sunday, November 20 9 am – 4 pm

Imagine the combination of relief block prints and watercolor. Relief block prints hold a huge realm of possibilities. You can repeat the image to create wonderful patterns and add collage onto layers of watercolor. Learn how to design and carve images with little effort on soft rubber material. These designs will build accents and decorative lines for our watercolor painting. I'll show you ways to drop in brilliant color onto the paper surface. Adding watercolor to block prints is a form of instant gratification. Bright colors, lines, and shapes just pop immediately on the surface with little effort. No worries about your drawing skills level- tracing paper will be available! Indulge yourself for a day of creativity with paint, pattern, and print layers.

Instructor: Helen Shafer Garcia.

Cost: Member \$81, non-member \$97. Please visit our website for supply list at SDBGarden.org/classes. Please register by November 17.

Succulent Wreath Class Tuesday, December 6 9 am – 3 pm

Take home a beautiful succulent wreath that you make yourself. Taught by the SDBG wreath team

Cost: Members \$65, non-members \$78. Fee includes materials. Please register by December 2.

Holiday Wreath Making Saturday, December 10 10 am – 2 pm

Students will build a beautiful full sized, mixed greens wreath to decorate the home for the holidays. This technique can be applied to items often found in the garden. These gorgeous wreaths also make great gifts.

Instructor: Diana Burke.

Cost: Members \$50, non-members \$60. Materials fee: \$50 paid directly to the instructor at the beginning of class Please register by December 2.

Volunteer and Docent News

July Volunteer of the Month: SHAHLA DREYER

Born in Iran, Shahla traveled the world (literally!) for work before retiring in San Diego. Throughout her colorful career, she lived in Germany, Greece, Spain, Portugal, Belgium and the exotic land of Minnesota, before moving to Carlsbad, stopping by the San Diego Botanic Garden and falling in love with our 37-acre botanic wonderland. On her very first visit to the Garden, she became a member and filled out the Volunteer application all in one day! Since then, she has worked in almost every area of the Garden and is currently an active member of the Undersea Succulent Garden Team. She has also worked on the Fall Plant Sale, Gala in the Garden, and Pond Studies with elementary school children. Shahla loves watching the curiosity of the children as they explore the Garden, and bringing out of town visitors here!



August Volunteer of the Month: BOBBI SIEBERT

A transplant from Minnesota, Bobbi left the blizzards behind when her husband was transferred to Miramar Naval Air Station in 1960. After moving to San Diego, she continued working as a nurse in Escondido and did outside gardening projects at home, along with other volunteer work. Growing up, Bobbi's mother always had a big vegetable and flower garden, and Bobbi herself was active in 4-H gardening. In 1990, after her daughter's wedding at the Garden, Bobbi became involved and has beautified the Native Plants & Native People area, as well as volunteered at Garden of Lights, the Fairy Festival, Gala in the Garden, and the Welcome Center.



September Volunteer of the Month: PAT HILTY

Pat's love for gardening began when she visited her grandmother as a child. Each visit actually began with a garden tour! Prior to becoming an amazing volunteer at the Garden, Pat worked as a bilingual educator and administrator, and still works as a landscape designer. A friend originally introduced her to the Garden, and since then she has helped out in a wide variety of ways – including being part of the Gift Shop team, outreaches and botanical printers. She says the love that flows between staff, docents, volunteers, visitors, and nature is what she appreciates most about being a volunteer at the Garden. Her fondest memory is hearing President & CEO Julian Duval announce the fundraising goal for the Dickinson Family Education Conservatory had been reached!



We Love Our Docents!

New Classes Begin September 2016

Our Docents at San Diego Botanic Garden serve in the Gift Shop, as tour guides, provide Garden beautification, greet our guests in the Welcome Center, and much more. Our next series of 8 classes begin on Thursday, September 8 and meet every other Thursday from 9 am – 1 pm.

Contact Liz Woodward at 760-420-1455 or liz@woodwardweb.net

For more information. You can also register for Docent training classes by calling 760/436-3036 x206.

Cost: \$50 for classes held bi-weekly from 9:30 am – 1 pm. pre-requisites are required.

Docent Meetings – Everyone Welcome

First Wednesday of the Month 9:30 am – 12 pm Arrive at 11 am for the program

October: San Diego Botanic Garden's new Director of Operations Ian Cole will be sharing with us information and images from the Kahanu Garden on Maui and the National Tropical Botanic Garden.

November: Annual Potluck Lunch

December: NO MEETING

Thank You Donors

San Diego Botanic Garden wishes to thank the following donors for cash and in-kind gifts, including Benefactor and Larabee Society memberships, received prior to July 18, 2016.

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Arbor Vitae Guild Members

Ruth Larabee believed in the importance of preserving open spaces and gardens for the enjoyment and education of the community. This belief led her to bequeath her 30-acre estate for just that purpose, a gift that became the San Diego Botanic Garden. Planned giving is the cornerstone of the Garden's history and the key to its future.

The Arbor Vitae Guild was established to honor the Garden's friends who have indicated that they have included the Garden in their will, trust, or other deferred giving method. Gifts of all sizes are welcome, as they ensure the Garden's natural beauty and vitality for the enjoyment of future generations. We invite you to begin a conversation about how a planned gift can benefit you now and the Garden in the future. Please contact Carolyn Zollars, Director of Development, at 760/436–3036 x216 for more information.

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* Indicates Arbor Vitae Guild members whose gifts have been realized.

Ms. Nita Williamson

Please remember to include Quail Gardens Foundation, Inc., dba San Diego Botanic Garden, tax ID 95-6120581, in your will, trust, or estate plan.

Welcome These New Team Members To The Garden Family!



Carolyn Zollars Director of Development

Carolyn Zollars has worked in religious, healthcare and university fundraising. She enjoyed being a visitor at the Garden while raising her children. As a resident of Leucadia and La Costa Valley for 28 years, she is passionate about

protecting this North County gem as the new Director of Development! Stop by her office to say hello during your next visit!

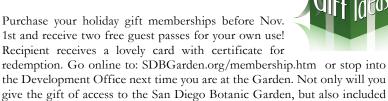


Ian Cole Director of Operations

Ian Cole, a self-proclaimed 'plant nut', comes to the garden from the Breadfruit Institute at the National Tropical Botanical Garden in Hana, Maui. His background is in botanical gardens, orchard management, and horticulture, and

he has a Master's degree in medicinal plant chemistry. Ian and his wife and children are excited to be exploring their new home in Encinitas and participating in Garden events.

Membership Makes a Great Holiday Gift!



Great news! Our online membership forms have been streamlined and are now working smoothly. Go online to: SDBGarden.org/membership.htm. If you have any questions, call Josh at 760/436-3036 x214.

is entrance to more than 300 other Gardens in the US and beyond through

Cornucopia:

our reciprocal admissions program!



Friday, September 23 – Friday, November 18 Ecke Building

All life depends on plants for the energy they capture from the sun. Leaves, seeds, fruits, roots, stems, pollen and flowers can all provide nourishment for living beings. Thirty-nine pieces of art from 18 different artists from the Southern California Botanical Art Guild celebrate the diversity of plant life that humans use for food, beverages and to enhance the flavor of their favorite cuisine.





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Many Thanks to our Corporate Partners

We thank our corporate and foundation partners for their annual support of the Garden's mission to inspire people of all ages to connect with plants and nature. These organizations provide unrestricted cash or in-kind contributions, which fund our educational programs and the overall care and maintenance of this 37-acre botanical oasis.

Corporate partners receive recognition on our website and on signage in the Garden, family membership benefits, guest admission tickets, invitations to special events, and other attractive benefits, depending on their level of support. For information on how your organization can support the Garden as a Corporate Partner, please contact Josh PinPin Membership Assistant, at 760/436-3036 x214.

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