

CENTRAL SPINE

April 2026



Aloe bloom by Cameron Davis.

LATIN FOR LOVERS: THE CACTUS AND SUCCULENT VERSION

By Stephanie Halcrow

Join Stephanie for our **April 19, 2 p.m.** meeting in Dorrance Hall at DBG. Come early to socialize and bid on plants in the silent auction and get free plants.



Stephanie will share the history of Latin botanical names and tips on how to pronounce them. This presentation should serve as a perfect segway for members to celebrate the winning cactus and succulents from the CACSS 2026 Annual Show and Sale Award Ceremony.

Stephanie Halcrow is a CACSS Board Member, co-chair of the CACSS Education Committee, and a certified Maricopa County Master Gardener. Stephanie has taught classes on cactus and succulents for almost a decade at churches, libraries and even the United States Botanic Garden.

Stephanie also holds a certificate in therapeutic horticulture from North Carolina State University. She enjoys sharing her love of gardening with others. She especially loves cactus and succulents because they teach us how to thrive under stress.



SAVE THE DATE

**JUNE 12, 13, & 14, 2026
AT THE HUNTINGTON**



THE CSSA ANNUAL SHOW & SALE

FINANCIAL RESULTS JANUARY-DECEMBER 2025

By Treasurer Tammie Jansen

INCOME

Donations Received	\$ 15,303
Fundraising	\$ 9
Membership Dues	\$ 5,225
Miscellaneous Revenue	\$ 595
Proceeds	\$104,067
Total for Income	\$125,199
Cost of Goods Sold	
Auction Costs	\$(14,793)
Vendor Payouts	\$(59,336)
Total for Cost of Goods Sold	\$(74,130)
GROSS PROFIT	\$ 51,070

Total for Expenses	\$(51,253)
Net Operating Income	\$ (183)
Interest Income	\$ 2,269
Net Income	\$ 2,086

Total Net Assets/Equity

This represents working funds for day-to-day expenses, plus three years of reserve funds.

FINANCIAL HIGHLIGHTS FROM 2025

Monthly and MEGA Auctions Revenue	\$14,087
Education Speakers and Travel Reimbursements	\$(1,875)
Show and Sale Net Profit	\$10,169
Holiday Party	\$(1,279)

DONATIONS GIVEN:

Boyce Thompson	\$ (3,000)
DBG Donations:	
IUNC	\$ (6,000)
Research	\$ (6,000)
Total for DBG Donations	\$ (12,000)
Other Contributions	\$ (300)
Total Donations Given	\$ (15,300)

CACSS ANNUAL SHOW AND SALE 2026 RECOGNITION OF WINNERS

By Kathi Metzger

The 2026 CACSS Annual Show and Sale has concluded. We extend our heartfelt thanks to all members who participated and showcased their remarkable plants. Over 700 awe inspiring plants were on display, amazing members and the public. Each exhibit was truly stunning and contributed greatly to the event's success. Here is the list of award winners:

CACTUS

Best Ariocarpus

Ariocarpus fissuratus

Brant Mackley

Best Advanced Cactaceae

Pterocactus fischeri

Tristan Davis

Best Ferocactus

Ferocactus cylindraceus

Sue Hakala

Best Junior Novice Cactaceae

Rebutia krainziana

Eleanor Luiten

Best Cactaceae of Show

Kadenicarpus

Michiel Pillet

Best Cactaceae Collection

Copiapoa collection

Jacob Gibbons

Best Mammilloid

Mammillaria microthele

John Young

Best Novice Cactaceae

Turbinicarpus schmeidickeanus subsp. *schwarzii*

Bill LeGoullon



Best Seedling
Echinocactus polycephalus, sown 09/2023
Ken Luiten

Judge's Choice for Cactaceae (Noemi Hernandez Castro)
Astrophytums in a saguaro skin
Sarah Lewis

Judge's Choice for Cactaceae (Michiel Pillet)
Stenocereus hystrix
Tristan Davis

SUCCULENTS

Best Adenium
Adenium arabicum 'Black Skin'
David Marmion

Best Agavaceae
Agave utahensis
John Young

Best Aloeae
Aloe castilloniae
Tammie Jansen

Best Novice Aloeae
Aloe castilloniae
Tammie Jansen

Best Advanced Succulent
Uncarina roeoesliana
Jacob Gibbons

Best Euphorbia
Euphorbia gorgonis
David Marmion

Best Junior Novice Succulent
Haworthia venosa
Edith Luiten

Best Novice Succulent
Euphorbia obesa
Chad Hagen



Some of the show plants.

Best Succulent of Show
Bursera microphylla 'Waterman Mt. Form'
Tom Gatz

Best Succulent Collection
Lithops collection
Cliff Fielding

Judge's Choice Succulent (Miles Anderson)
Lithops collection
Cliff Fielding

Judge's Choice Succulent (Ty Peterson)
Bursera hindsiana
Tom Gatz

Best Arizona Native Species
Dudleya collomiae saxosa
Kim Andrews

Best Crested or Monstrose
Cipocereus bradei
Bill LeGoullon

Desert Botanical Garden Best in Show for Artistic Merit
Turbinicarpus lophophoroides
Bill LeGoullon

The following trophies are based on points or number of blue ribbons awarded in the show.

- CACSS Cactus Sweepstakes: Jacob Gibbons
- Novice Sweepstakes: Marco Meraz
- Most Blue Ribbons: Jacob Gibbons

The People's Choice trophy is determined by which plant has the most beans in a cup as determined by visitors attending the Show and voting with their beans. It is awarded at the end of the show.

- The People's Choice: Marco Meraz, *Adenium*

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PRESIDENT'S MESSAGE By Don Begley

There is no more fitting way to start this month's message than with a big thank you to our Annual Show and Sale Leadership Team: Joan McDonnell, Kathy Metzger, Pat Adler, Ruthanne LaQua, and Bob Hopfner, along with Natalie Fruciano leading our marketing and communications.

This year's Annual Show and Sale was a high-energy success. Our Show featured over 700 member plants on exhibit—a significant jump from 520 in 2025! These counts highlight the incredible talent within our club. Also, we were able to learn from the vendor displays, our Education Committee display and the two educational conservation displays provided by Desert Botanical Garden.

- A Commitment to Conservation

Our sale featured 24 vendors, including six from California and ten from our very own CACSS members. Following our rigorous standards, all show plants and vendor inventories were screened by our conservation experts to ensure no field-harvested or illegal plants were present. This dedication to an ethical hobby is deeply appreciated by the botanical community and conservationists alike.

- Strengthening Our Partnerships

The event was powered by over 100 member volunteers and strong collaborative support from Desert Botanical Garden. We were honored to welcome the Garden's new President and CEO, Chris Kline, who selected a plant exhibited by Bill LeGoullon as the winner of the Desert Botanical Garden Best in Show for Artistic Merit trophy.

To celebrate our partnership, we presented the Garden with a \$7,000 donation toward its research fund. We also want to thank the Society members who opened their homes to provide lodging for our guest vendors. These connections are where some of our best horticultural learning happens!

- Growing the Next Generation

We debuted a children's event this year in the Weisz Learning Center, where over 45 children (ages 2 to 12) created botanical artwork with the help of CACSS and DBG volunteers. It was a joy to see parents and children engaging together.

- The Energy Hub of Phoenix

As I mentioned during my Friday morning segment on Fox News, this event became the energy hub of Phoenix for the weekend. We welcomed several new members who joined simply because they were drawn in by the excitement and camaraderie. As I was told when I first joined, the passion of the CACSS is infectious. We certainly spread that joy to a lot of people during the weekend!

- Looking Ahead

Join us at the next club meeting on April 19 to keep the momentum going. We will hold our Annual Award Ceremony, featuring a slideshow of the winning plants and members. As always, there will be free plants and a silent auction featuring special specimens from some vendors.

- Save the Date

Mark your calendars for the 2027 Annual Show and Sale coming March 31-April 4. If you want to help shape the plans for the 2027 event, please reach out to me soon as we are already beginning to organize. I invite you to embrace the tradition and engage the future.



Center, President and CEO of DBG Chris Kline, DBG Staff and CACSS Show and Sale Leadership Team. Photo by Bryan Bergford.

Remember how excited the library was when an article by Debra Lee Baldwin was found in the current issue of the Cactus and Succulent Journal (winter 2025)? The library has six copies of her books, and one of her books is the focus of this review.



Ms. Baldwin grew up in a lush portion of California where she learned to equate “succulents with jade plants that thrive in abandoned gardens and were removed by people who were serious about landscaping.” In her preface she describes how she evolved into a person who believes succulents have a place in tended gardens. She comments that these days, “My job as a garden and design writer is to define and describe beauty. I discovered that succulents are as elegant as they are dramatic and show to advantage in complicated combinations.” She further wrote, “Since then I have sought gardens throughout Southern California, and as far away as New York and Vancouver that show succulents to advantage.”

The author wrote a review of the contents in her Book Overview section. “The book’s initial chapters provide suggestions for planning and preparing your

garden, including tips on soil amendment and irrigation. One intriguing way to design with succulents is to create a garden that resembles a coral reef.” You’ll find information on pest control in chapter 6. Part two of the book helps you select plants for your particular garden.

This is a heavy book, heavy in weight, number of words and good information. A reader will soon realize they will have to renew the book’s due date several times before their eyes reach the final page. For people who are serious about landscaping, or simply want to learn about it, this book will be a boon.

CACTUS AND SUCCULENT SOCIETY OF AMERICA BIENNIAL CONVENTION 2027

SAVE THE DATE
CACTUS & SUCCULENT
SOCIETY of AMERICA
2027 BIENNIAL CONVENTION



MAY 19-24, 2027, TUCSON, ARIZONA

The convention is taking place in Tucson, AZ, May 19-24, 2027. It will be hosted by the Cactus and Succulent Society of Tucson at the Westin La Paloma Resort and Spa in Tucson. It will set the stage for an engaging and memorable event in one of the world's great botanical destinations.

Everyone is working to deliver an exceptional experience at a reasonable price. The Westin will be offering a hotel rate of \$149 per night. More details will be available soon.

OPEN GARDEN ENCOURAGEMENT Text and photos by Marlies Plaggenborg

Opening your garden to club members as an organized event provides opportunities for members to explore private and public desert gardens throughout the year where we can learn from each other. They offer us a diverse range of xeriscape ideas for landscape arrangements and stunning collections all suited for our low desert climate. Inspiration is gained by both novice and experienced gardeners.



Club members discussing plants at Tony and Charity Frasier's garden.

During these tours, members have the chance to engage with garden owners, ask questions, and exchange ideas in an informal, welcoming setting. Whether featuring native plant refuges, collector's gardens, or innovative outdoor living spaces, these tours celebrate the beauty and resilience of desert plants while fostering connections among gardening enthusiasts.

Marlies Plaggenborg ,who organized the west valley garden tour last month, counted approximately 50 members attending. She says, "Hosting a garden tour is just plain fun

since I was among like-minded people.” She encourages us saying, “You too could open up your garden.”

Candy and Jerry Briney who have a beautiful boojum in their front yard said, “We received compliments on so many different plants, many of which were neither cacti nor succulents. It was an enjoyable experience for both of us.”

Tony and Charity Frasier said, “We gained so much insight from the questions asked and learned so much from the wisdom shared. The day truly felt like a party, high on plants. Thank you everyone for giving us such a wonderful experience.”



Marquita Porter commented, “How fun to see the familiar faces of the cactus/succulent group at my house. I had the opportunity to meet several new folks. A mystery plant was identified. It was an exciting day and a very fulfilling one.”

Consider sharing your garden with our members. We welcome individual gardens or a group of gardens in close proximity, and look forward to seeing you at the next open garden tour.

Marlies Plaggenborg enjoys sharing her garden with Tom Gatz, Tim England, and Lee Brownson.

CENTRALARIZONACACTUS FACEBOOK PAGE By Editor Sue Hakala

The CentralArizonaCactus Facebook Page was created in July of 2014 as an outreach of the CACSS. There are currently 6,500 members worldwide who share hundreds of posts a month. If you have a question about what is wrong with your plant, post it. You'll get good answers every time.

If you have a plant that is blooming beautifully, post it. You'll see people from all over the world that have that same plant blooming too, no matter where they live. I find that incredible.

Facebook Administrators are Tom Briggs, Natalie Fruciano, Celeste Gornick, Ken Luiten, BJ Seemuth, and Tom Young. They make sure that posts are appropriate. We all thank them for their diligent work.

I'm looking for someone to review the page monthly and select 1-4 plant photos that they think are outstanding to publish in the newsletter. It won't take you much time. Let me know if you are interested. cacsscentralrspine@gmail.com

CACTUS & SUCCULENT REVIEW A free online newsletter

The March issue of this publication is really a delight with lots of great photographs. The 70 page issue is edited by Sheila Cude, who does an outstanding job. Visit the website and sign up for this **free** publication. In this issue learn about:

- *Echinopsis candicans*
- *Larryleachia*
- Succulent bulbs
- *Copiapoa*
- *Aeoniums* of Africa and Yemen
- *Conophytums* and a whole lot more

CONTACT INFORMATION FOR MEMBERS WILL NO LONGER BE PROVIDED IN THE NEWSLETTER AS ISSUES HAVE OCCURRED.

To contact a board member, committee chair, specialist, or others use the Contact Us form on the club website. When filling in the form, put the name of the person in the subject field that the message is intended for so it can be forwarded to the appropriate person.

Just click on the direct link: centralarizonacactus@gmail.com

IF THE TRUNK LOOKS LIKE A BOTTLE... By Kathleen M. McCoy



Taking a leisurely stroll through the Wallace Garden at the Boyce Thompson Arboretum (BTA), I came upon a tree with a trunk that looked a lot like a bottle, and, to no surprise, was called a bottle tree (left photo). Capturing my imagination, I wondered if a genie could pop out and grant me a wish or two specifically related to more information about this odd-looking tree.

A research journey took me via internet to Australia where a couple of unexpected challenges emerged like a joey from its mother's marsupial pouch. What is the plant's scientific name and to what botanical family does the bottle tree belong? What should have been a simple fact finding trip led me to a maze of possibilities that took a number of twists and turns. To begin, a bottle tree (*Brachychiton*) is a succulent wood plant, and a little deep diving into its ancestry revealed an interesting familial shift.

Brachychiton, which was originally classified in the family Sterculiaceae, resides now within Malvacea. This 31 member genus includes okra, hibiscus and cotton. Although some members of this genus are so highly related, they are very difficult to separate. Scientific nomenclature guided the way to the Queensland (QLD) bottle tree, also called the narrow-leaf bottle tree, Queensland-Flaschenbaum, or Kurrajong.

The tree I viewed looked very healthy against rocky terrain in the Wallace Garden. This type of terrain is not so different from its native habitat which ranges from central Queensland to northern New South Wales in Australia. An almost foolproof means to determine if the sight before your eyes is the QLD bottle tree is all about location, location, location. A swollen trunk and restricted range to a very small area in "the land down under" clinches the finding of the QLD bottle tree. The tree, endemic to this area of the continent, grows very well, indeed. Some of these hardy natives have been known to live up to 3,000 years in their native habitat!

In general, a QLD bottle tree thrives in warm, temperate, subtropical, tropical, and Mediterranean regions. It is clearly open to an extensive range of temperatures and soils, with the exception of very alkaline or exceeding wet grounds. Given a preference, the tree would choose earth that is well-drained, sandy or loam-based, and slightly



acidic. Like some of our Sonoran inhabitants, e.g., the boojum, the bottle tree is deciduous and will lose leaves before flowering and during droughts. This hardy, slow growing succulent can be 40 feet wide and stretch up to 67 feet high in its natural environment. In cultivated settings, stature is closer to 20 feet tall with a typical width of 30 feet. The highly adaptable QLD bottle tree, grown indoors, usually tops out at about one foot when placed on a sunny windowsill.

More than a conversation piece, the bottle-like trunk is an adaptation which acts as a natural reservoir for storing precious

moisture in the arid harsh outback. Like a favorite elderly relative, the trunk and the leaves change form based on maturation. Between 5-15 years, the trunk gradually morphs from a lovely svelte body into a more rotund with age gradually changing into its trademark bottle shape.

Water is stored between the inner bark and the outer part of the trunk. Grateful to this living drinking fountain, aborigines historically carved holes into the soft bark to create small personal water storage tanks. When fully established, the succulent wood tree will abide drought and high temperatures. When water is scarce, the trunk slims down as it uses its supply of stored water; it will be replenished in wetter times.

No slackers, the leaves too are variable in form. Deeply lobed leaves are found on young trees and transition with maturity to narrow, spear-shaped green leaves which will

broaden again over time. The narrow leaves are covered by a kind of self-produced sunscreen, a waxy coating (epicuticular wax) to prevent water loss. In the dry season, or just before flowering, leaves are dropped in order to fully parade small bell-shaped pink-cream flowers, a ploy to capture the attention of pollinators. If the display has been successful, tiny blooms produce chunky dark brown woody pods filled with edible nutritious seeds shaped like miniature bananas.

Other valuable food sources which pop out of the bottle tree are its roots and inner bark. Beyond being a source of sustenance, strips of the fibrous inner bark have been used by aborigines to create ropes used in hunting. Birds, possums and insects are grateful for food and shelter as well. In fact, even Terra Mater gives a nod of appreciation to the bottle tree for prevention of erosion through soil stabilization.

GOOD NATURE By Editor Sue Hakala

Wendy Barrett recommended the book *Good Nature: Why seeing, smelling, hearing, and touching plants is good for our health* by Kathy Willis. This is an interesting book with reports on studies being done worldwide on this subject.

What the researchers have found, so far, is that people interacting with plants can experience:

- Reduced incidences of depression, anxiety and stress.
- Fewer mood disturbances.
- Improved cognitive functions.
- Lowering of high blood pressure.
- Reduction in body mass index.

Although most of us gardeners have already experienced these things, it's fun to know that it is a measurable thing. Get outside, take others with you, and feel good!



Be sure to visit CACSS on the web at: centralarizonacactus.org,
Facebook, Instagram and YouTube at: [CentralArizonaCactus](#), and
members only at: [CentralArizonaCactus Swap and Shop](#).



Elton is recognized as a master grower by the Cactus and Succulent Society of America.

Maybe 60 years ago, I was at a cactus nursery looking at *Wilcoxia* plants and the owner told me that *Wilcoxia* are *Echinocereus*. I did not agree. She said that when a *Wilcoxia* starts to grow a flower bud or an offset, the areole in question splits open like the areole on an *Echinocereus*. I knew a *Wilcoxia* was a *Wilcoxia* and an *Echinocereus* was just that. Years later some know-it-all put all *Wilcoxia* under *Echinocereus*. Now I have to wonder if all plants that are starting to grow offsets and splitting the areole are all *Echinocereus*.



Photo 1, left above, is *Coryphantha durangensis* subsp. *cuencamensis*. Notice there are two bands of offsets growing across the plant. There are at least 12 offsets growing across and kind of disappearing around the right side of the plant. There are at least four offsets at the bottom of this plant; this is a *Coryphantha*. Most *Coryphantha* have grooves on the tip of the tubercle. Out of that groove grow the flowers and any offsets the plant is going to grow. There is no splitting of areoles of tubercles for flower and offset growth.

Photo 2, right above, is *Echinocereus davisii* f. *brevispinus*. If we look closely, there are flower buds and also offsets. You cannot see the splits at the areole above the spine clusters unless you enlarge the photo up to about eight inches across. Look at the bottom spine clusters; at the top of them is what looks like a wart. That is where the

plant grew a flower bud. In time, it dried up and fell off leaving that wart. On *Echinocereus*, the split opens and out slides the flower or offset; then it closes down again, and no harm is done. Unless you know what has happened, you will never know that the plant split the areole and let out a flower bud or an offset before it sealed itself again.



Photo 3, above, is *Mammillaria sanchez-mejoradae* that is offsetting. There is a small offset just starting to grow in front of the offset on the left side. These offsets grow from deep in the areole and tubercle of the plant and are not easy to remove. It usually takes a tool of some kind to remove offsets like this. The offsets that grow from the areole will send down roots that are easy to remove.

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MANGAVE—NEW KIDS ON THE BLOCK By Ron Borg and Robyn Robertson

What started as an “accidental” cross pollination in nature between adjacent *Manfreda variegata* and *Agave celsii* resulted in a unique plant with characteristics and qualities of both parents. Discovered in a batch of *Manfreda* seedlings collected in northern Mexico by two nurserymen from Texas in 2003, they were originally designated as x*Mangave*, but are better known today simply as *Mangave*. This first hybrid was called “Macha Mocha.” *Mangaves* have since been crossbred and cultivated, mostly by Hans Hansen, a plant breeder at Walter Gardens in Michigan. Thirty to forty different cultivars have been released to the public with many more in development.



Manfreda maculosa one of the parent plants of “Bloodspot” by World of Succulents.com

Typical characteristics: *Mangaves* often have unique and vivid colors, soft or absent spines, smaller and compact plant sizes. These are all characteristic of *Manfreda*. They also maintain the drought and heat tolerance of *Agave*. Leaves may be flat, wavy, curly, rough or smooth, stiff or soft. Foliage may be fragile, yet they are considered deer and rabbit resistant. Because of their hybrid parentage, varieties may appear red, green, black or silver, often with prominent purple spots, stripes and speckles. The more sun they receive, the

more vivid the colors. Six hours of daily sunshine is usually recommended. But in Arizona, most varieties require afternoon shade.

General care: *Mangaves*, in general, are amazingly easy to grow and are low maintenance. They thrive in landscapes and in planters. *Mangaves* tolerate occasional overwatering that can be problematic for *Agaves* and other succulents. Growth rates are faster than *Agave*. Young *Mangaves* may grow faster with more water, but they are subject to root rot when overwatered. They grow best when ambient temperatures are over 50 degrees.

After one to several years, *Mangaves* can send up flowers (inflorescence) that consist of tubular yellow, green or pink flowers on tall stems. Due to the short time they have been studied, there is still ongoing debate about whether these plants are polycarpic (flowering multiple times) like *Manfreda* or monocarpic (flowering only once) like most *Agave*. Plants reproduce with offsets/pups or bulbils.

Disease and pests: While mostly disease resistant, like their *Agave/Manfreda* parents, there are some insects and other pests that can affect the plants. Rarely, the agave snout weevil will kill these succulents in the same fashion as they kill their *Agave* hosts.

Mangaves have fun names like Mission to Mars, Bad Hair Day, Praying Hands, Pineapple Express, Cherry Chocolate Chip, and so many others. Because of their great variability in size, shape, color, and their general hardiness and ease of care, *Mangaves* are popular among novice and professional succulent collectors, landscapers and homeowners alike.



Additional resources:

<https://www.chicagobotanic.org/plantevaluation/evaluation-study-select-mangave-cultivars>

<https://www.provenwinners.com/plants/series/art-so>

<https://www.gardendesign.com/succulents/mangave.html>

<https://www.plantdelights.com/blogs/articles/mesmerizing-mangaves>

Left, *Mangave* 'Red Wing' by Ron Borg.



Above *Mangave* 'Snow Leopard' by Ron Borg.



Mangave 'Silver Fox' with inflorescence by Robyn Robertson.

CACSS OFFICERS, BOARD MEMBERS AND COMMITTEE LEADERS 2026

Officers: President **Don Begley** | Vice President **Javier Gurrola** | Secretary **Jennifer Leavitt** | Treasurer **Tammie Jansen**

Members-at Large

- Serving through December 2026: **Stephanie Halcrow** | **Bob Hopfner** | **Ruthanne LaQua** | **Kathi Metzger** | **Mary Miller**
- Serving through December 2027: **Pat Adler** | **Kim Andrews** | **Mary Dokes** | **Desi Kovacs** | **Lisa Moore** | **JR Trevas**

CACSS PROGRAM AND COMMITTEE CHAIRS 2026

- Annual Show and Sale Team: **Pat Adler, Bob Hopfner, Joan McDonnell, Kathi Metzger, Ruthanne LaQua**
- Archivist/Historian: **Lois Schneberger**
- Auction Chair: **Javier Gurrola, Ann Winchell**
- CSSA Affiliate Representative: **Don Begley**
- Calendar Coordinator: open
- Donations Coordinator: **Chris Ginkel**
- Education Committee Co-chairs: **Stephanie Halcrow, Desi Kovas**
- Facebook Administrators: **Tom Briggs, Natalie Fruciano, Celeste Gornick, Ken Luiten, BJ Seemuth, Thom Young**
- Facebook Swap and Shop Page: **Tom Briggs, Natalie Fruciano, BJ Seemuth**
- Google Workspace Co-administrators: **Emily Adler, Janet Catlett**
- Graphic Designer: **Bob Hopfner**
- Holiday Party: **Lisa Moore**
- Instagram Administrator: **Natalie Fruciano**
- Keeping in Touch with Members: **Jo Davis**
- Librarians: **Diana Rogers and Sylvia Lee**
- Membership Chair: **Pat Adler**
- Newsletter Editor: **Sue Hakala**
- Outreach: **Kathi Metzger**
- Private Plant Sales at Meetings: **Chris Ginkel**
- Printify: **Natalie Fruciano, Jackie Peel**
- Propagation Education Group (PEG): **Tristan Davis**
- Pumice Sales: **Rich Caravello, Bob Hopfner**
- Recognition Committee: open
- Speaker Coordinator: **Nadia Whiteside**
- Tech and Communications: **Natalie Fruciano**
- Trip Coordinator: open
- Website Administrations: **Peter Bockenthien, Angela Stephens, Brian Simmons**
- YouTube Administrator: **Brian Simmons**

SPECIALISTS TO CONTACT WITH QUESTIONS

- **Tristan Davis** Manages the Seed Depot. Specializations include plant propagation and heading PEG (Propagation Education Group).
- **Doug Dawson** Specializations include growing from seed, flora of Namibia, lithops, other mesembs, melocactus, and miniature cacti and succulents of Arizona.
- **Tom Gatz** Specializations include adenium, agave and growing succulent trees as bonsai (bursera, portulacaria, ficus, operculicarya, pachycormus, etc.)
- **Dean Patrick** Specializations in softwood stem-cuttings, plant division and seed starting, rooting cacti, agave, and aloe.

Direct any comments, questions, ideas to
Editor Sue Hakala.



Mangave 'Purple Lady' by Ron Borg.