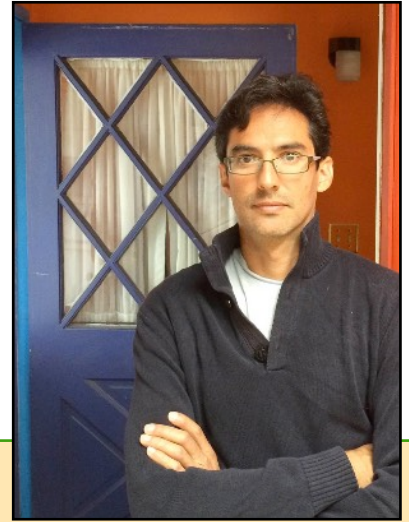


ON THE DRY SIDE

CENTRAL COAST CACTUS & SUCCULENT SOCIETY

IN THIS ISSUE:

- Speaker of the Month
- Plant of the Month
- Members Have Problems
- Guest Writer
- Brag Plants - *so many!*
- Announcements
- Business Members



Speaker of the Month is Ernesto Sandoval

Great news we will be having a meeting (virtually) on August 9th at 2pm on Zoom. If you are not familiar with Zoom you may want to check it out. You will receive a Zoom invitation prior to the meeting by email. Use this information to log onto our meeting. CSSA has been successfully having Zoom speakers every two weeks lately and we hope to start at least having the meetings the second Sunday of the month on Zoom.

On August 9th we will have the pleasure of hearing from Ernesto Sandoval. There will be lots of cool pictures and information but you will need to provide your own snacks.

Ernesto will be talking about:

Succulents: "Liberated in the Ground or Constrained Containers?"

As with much of life there are benefits and challenges from the choices that we make and how we grow our succulents is part of that. Without getting too philosophical about life's choices Ernesto will explore the benefits of growing succulents in the ground versus in containers.

There are reasons for doing both and we'll explore, visually the results and challenges of each option. Ernesto will take you through these options using examples of growing plants in the collections of the UC Davis Botanical Conservatory in Northern California, where Ernesto cares for a plethora of plants, as well as examples from private and public succulent growers.

Biography

Ernesto Sandoval has been wondering and seeking questions and answers to why plants grow and look the way that they do for nearly 40 years. Now he explains and interprets the world of plants to a variety of ages and from amateur to professional gardeners. He regularly lectures to a variety of western Garden Clubs throughout the year and particularly to Succulent Clubs throughout California. Desert plants are his particular passion within his general passion for plants. He describes himself as a "Jose of All Plants, Master of None" and loves learning from the experiences of others as well as his own.

SPEAKER CONT'D...

Ernesto thoroughly enjoys helping others, and gardeners in particular, to understand why and how plants do what they do.

When he was about 13 he asked his dad why one tree was pruned a particular way and another tree another way. His dad answered bluntly "because that's the way you do it." Since then he's been learning and teaching himself the answers to those and many other questions by getting a degree at UC Davis in Botany and working from student weeder/waterer to Director/Manager over the last 30 years at the UC Davis Botanical Conservatory.

He's long left the "mow blow and go" monoculture landscape gardening world and has immersed himself in the world of horticultural biodiversity by growing several thousand types of plants at the UC Davis Botanical Conservatory, many of them succulents! Several of his favorite garden projects involved converting lawns and or water loving landscapes to drought tolerant and diversity filled gardens! He likes to promote plant liberation by encouraging gardeners of all sorts to grow more plants in the ground when possible. He loves the technical language of Botany but prefers to relate information in more understandable methods of communication! By helping people to understand the workings of plants he hopes to help us better understand how to and why our plants do what they do and how we can maximize their growth with less effort.



MORE INFORMATION IN ANNOUNCEMENTS ABOUT THIS MEETING!



PLANT OF THE MONTH *Ibervillea lindheimeri*

by Markus Mumper



just make sure there is no standing water or the caudex will rot. Some growers place an inch or so of course small gravel on top of the soil and the caudex above that to help prevent rotting, the roots will penetrate right through the rock and into the soil for water and nutrients.

I. lindheimeri will tolerate short periods below freezing and can thrive during warm Summers, their natural habitat is hot and humid at that time.

Not sure if the fruit is edible, but it probably should not be tried.



A characteristic of plants in Cucurbitaceae is tendrils that arise lateral to the leaves, distinguishing them from Passifloraceae (tendrils arising from leaf axils) and Vitaceae (tendrils arising opposite the leaves).

Ibervillea lindheimeri grows in sandy soils, mostly in oak woods in Texas and Mexico. It is getting very rare to find in the wild due to harvesting. The species is also known commonly as Balsam Gourd or Globeberry. It develops a large white caudex with annual vines in the Summer and is dormant in Winter. The vines have long tendrils, small yellow flowers and showy red berries. The vines are easily trained along a trellis or under oak trees. During Winter the vines die all the way back to the caudex.

Protect the caudex from full sun but provide plenty of light for the vines during the growing season, the vines will find the light by themselves. Use the typical well drained soil mix. If planted in a pot they do appreciate consistent watering [maybe once a month depending on the size of the plant, larger plant equals less frequent watering] in the Summer,



PROBLEMS

Submitted by Merodie Nelson. . HELP! *Whitefly Infestation*

Answers by Rob Skillin and Gene Schroeder

All my experience with white flies is in a greenhouse, where they can become a big problem, so the following pertains to that. I've never had a problem with them out of doors.

The best way to eradicate them (maybe the only one that really works) is to use a systemic insecticide. The two I know you can purchase at a retail garden center like Farm Supply are Orthene and one of the various Bayer products containing imidacloprid.

Orthene is a spray, and will work faster, but requires lots of Personal Protective Equipment (water-proof gloves and shoes, eye goggles, face mask, hat, long-sleeved shirt and long pants, etc., and a sprayer).

Imidacloprid can be found in a granular formulation, which does away with the need for most of the PPE – it's the safest to use. Its applied to the soil surface and gets watered in. Be careful not to wash it out through the bottom of the pot. It takes a week or two to move into and throughout the plant. Some products are meant for using on landscape plants, and give recommendations on amounts to use based on the diameter of the trunk or stem. In such a case, I can give a recommendation based on pot size, but I need to know the concentration of imidacloprid.

In the meantime, you need to suppress the white flies so they don't spread to other areas. Rubbing alcohol works good in a hand sprayer (if you can find it now) and doesn't have the phytotoxicity that most of the soaps and oil-based products have after repeated applications. The white flies prefer to alight on the underside of the leaves, so it's important to focus on that.

In the long run, more than one treatment method is required, because if the same chemical is used over and over, the pests eventually become resistant. So you need to alternate treatment methods when they reappear. One advantage of alcohol, soaps and

oils is that the flies will not become resistant to them. But they need to be applied over and over again, on a daily basis, without missing any part of the plant, to catch new flies as they hatch out of their eggs.

The flies have a very short life cycle, and so they very quickly reproduce at an alarming, exponential rate. They start out on a particular plant or small area, and will stay there if you control their numbers. But if you overlook or ignore them, they will spread throughout the area and become very difficult to eradicate.

The best way to keep white flies, and any other pest, out of your collection is to assume that any new plant you buy is infected with something, even if you don't see it. Treat it for pests before introducing it to your other plants, and that will really reduce problems.
Rob



When infestations of citrus whitefly occur, I control by locating the plants primarily infected, and doing a daily, early morning blast with the garden hose. Repeat daily until the brief life cycle ends. Severely infested plants can be stripped or removed to speed things along. Repeat offenders should be eliminated but if they are in your neighbor's property, some cooperation may be required.

As Rob says, greenhouse control begins with exclusion. I have used Avid 75WP but it is not a practical solution due to cost and control restrictions. In general soap and oils do more harm than good. Cleaning up the hosts and near environment along with a good dose of persistence is the best solution. . .

Gene

Attached is UC-IPM Pest Notes from UC Davis Master Gardner program.

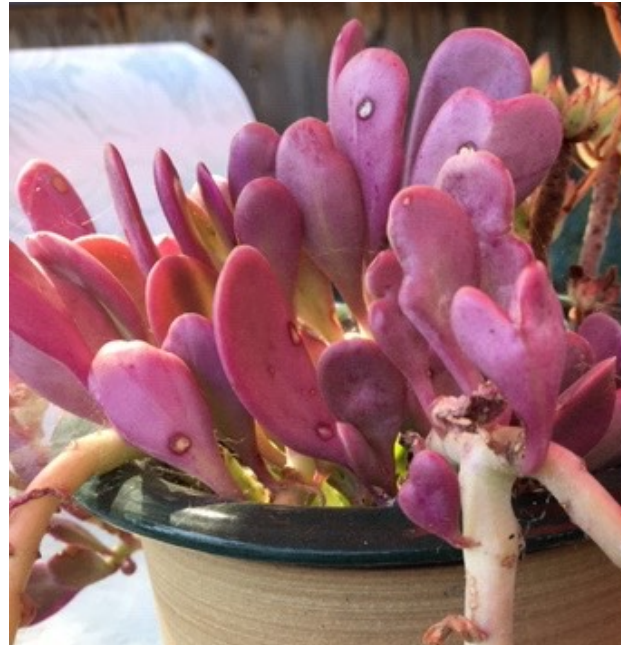
<http://ipm.ucanr.edu/PMG/PESTNOTES/pn7401.html>

PROBLEMS CONT'D . .

Hello could somebody tell me why I have white spots on these plants?

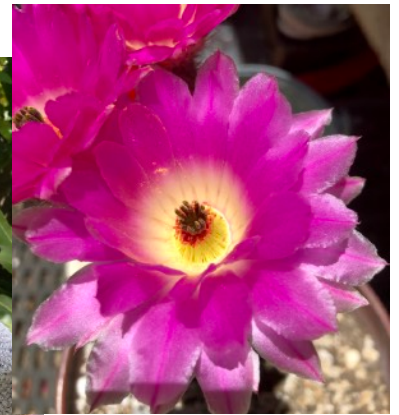
The spots on your first plant are probably A cultural issue. The plant appears quite stressed (red color indicates). That opens a plant to air or waterborne fungi that can cause that type of damage. To minimize it, keep the plant well watered and in a sunny, well ventilated position. Water early AM on clear days so the water can dry off before attracting anything. The spotted leaves can be removed and even the stems can be trimmed back to induce new, green growth.

Gene Schroeder -- from the ASK ME Table crew!



BRAG PLANTS . .

Here are some of my favorite blooming mammalaria . .
Leisa Swanson



Aloes for All Seasons

Article and Photos by Gene Schroeder

Landscaping for seasons has challenges. If you are an Aloe fancier, you know the winter glory has passed and even the flower stalks and fruit have gone. But, if you planned ahead, the late spring/summer blooms have come alive. How did you plan?

Fortunately, there is a great group of Aloes from the Western Cape region of South Africa. This group is collectively called “rubble aloes” or “mitre aloes”. These tough plants have creeping or sprawling stems and grow happily on rocky, sandy soil with little humus. They enjoy long, hot summers and winter rainfall. Occasional frost is not a problem with most being hardy to 25F or lower for short spells.

Late spring brings the emergence of branched racemes bearing orange to red flowers in cone shaped, rounded or head shaped arrangements. They remain in flower from late May through July or even August in cooler coastal area. The leaves are in compact clusters having small teeth on the leaf edges that may range from white to gold to even black. The leaf shape is the origin of the common name “mitre” aloe as a reference to the shape of a Bishop’s Mitre.

Nomenclature of these plants is currently undergoing changes but all old names are still common and valid. The names most commonly in use are *A. mitriformis*, *A. comptonii*, and *A. distans*. A more recent view moves these all to subspecies of *A. perfoliata*.

As an addition to this group two other plants must be considered as companions’ The hybrid Aloe X Nobilis and it’s suspected co-parent with *A. mitriformis*, *A. brevifolia*.

Aloe brevifolia is a compact, mound shaped plant up to 2 feet in diameter that happily grows in the same habitat/conditions as the mitre aloe.



Aloes for All Seasons . .

The hybrid X Nobilis has been around for many years and is suspected to be a natural hybrid though no proof has been offered. It has been available for years and almost all CentralCoast gardens have some of it. It will grow easily from separations or cuttings and slowly grow into somewhat flattened mounds up to 4 or 5 feet in diameter x 1 foot tall.

Separations or cuttings of all these plants should be taken after the flowering cycle. Ask your friends and neighbors, most will be happy for some pruning help!! Sept is probably the best time here. Set them aside in a shaded location and upright position (use an empty pot or basket) By November most will have produced some roots and they should be planted then in time for the winter rains. A little supplemental water might be helpful during the first summer but after that, they will be perfectly happy on their own.

Question? Just ASK ME!



ANNOUNCEMENTS

To our CCCSS members!

Great news! We will be having a meeting (virtually) on August 9th at 2pm on Zoom. If you are not familiar with Zoom you may want to check it out. You will receive a Zoom invitation prior to the meeting by email. Use this information to log onto our meeting. CSSA has been successfully having Zoom speakers every two weeks lately and we hope to start at least having the meetings the second Sunday of the month on Zoom.

On August 8th we will have the pleasure of hearing from *Ernesto Sandoval* who will talk about growing plants in the ground versus in pots. I am excited to hear what he has to say. Of course, there will be lots of cool pictures and information but you will need to provide your own snacks.

Once you receive the meeting invitation, and click on the link it contains, you will get a prompt to download the correct app.

From your new Board of Directors 20-21.



1100+ Facebook member! View club updates and photos.
Also find us online at www.centralcoastcactus.org.

The Long Beach Club July Zoom Meeting .. A presentation by Gary Duke on cacti of Chile
<https://www.youtube.com/watch?v=sCFFEYrZsXY>

The next is from BCSS contributors ...typing in the text, Noel's cactus update July 2020
<https://www.youtube.com/watch?v=PxBwfeMTHk>

BCSS has regular Zoom presentations but you need to join to subscribe.
Info at <http://society.bcass.org.uk/index.php/online-talks.html>

Cheers ... Gene

ANNOUNCEMENTS CONT'D . .



MIDSUMMER MADNESS

Succulent Plants and Pottery Sale

AUGUST 7 (FRI.) NOON - 6PM
AUGUST 8 (SAT.) 10AM - 4PM

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Held OUTDOORS at 2016 9th St. in Los Osos. Sellers are Steve Super Gardens, Rowe Clayworks, CalCoast Succulents/The Succ Shack, and GROW Nursery. There will be a wonderful selection of container, landscape and collector/show succulent plants as well as beautiful handmade planters and decorative pottery. Free plant with \$50 purchase and free Richard Rowe pot with \$100 purchase! Masks and physical distancing REQUIRED. No early birds please. For updates follow on Facebook at WegrowSLO, on Instagram at #wegrowslo, or email questions to wegrowslo@gmail.com

ANNOUNCEMENTS CONT'D . .

Event: Upcoming Programming at the San Luis Obispo Botanical Garden

Event Description: The San Luis Obispo Botanical Garden is open! We offer 150 acres of grounds that include trails, signature gardens, a gift shop, indoor and outdoor meeting spaces, and new programming for all to enjoy onsite or virtually. The Garden also offers many opportunities to find your passion, build your resume, and join an amazing community with a robust volunteer program. The San Luis Obispo Botanical Garden invites visitors and volunteers to connect with nature in our beautiful open spaces. Our 150 acres of land allows guests to spread out and explore the grounds and volunteers to find meaningful work while also practicing social distancing. We offer docent led tours of the garden by appointment to small groups or family units. Plant sales continue online or in person at the gift shop M-F 9-5 or at the greenhouse every Tuesday from 11 AM to 1 PM. In addition, we offer virtual tours of the Garden for members who would rather enjoy the Garden's beauty from the comfort of their homes. **Location:** San Luis Obispo Botanical Garden, 3450 Dairy Creek Rd

Cost: \$5 suggested donation/Free for members

Phone number: 805-541-1400

Website URL: Slobg.org

Emma Pirtle
805.541.1400

San Luis Obispo Botanical Garden: A Call For Artists ART IN THE GARDEN SHOW AND FUNDRAISER

SAN LUIS OBISPO, CA – Art in the Garden is an opportunity for artists to show and sell their work to community members. This juried art event will be held at the Garden's Event Pavilion on **November 6th, 7th, & 8th.**

Last year over 1000 people visited the Art in the Garden event, and this year we expect more!

Artists will be selected to give visitors exposure to a variety of art mediums.

We invite you to submit an application to participate in this Fall's Art in the Garden.

To participate in this art show and sale, please visit slobg.org, review the **Call for Artists** document, then complete and email the **Artist Application** to heather@slobg.org.

Scholarships are available thanks to our sponsors at The Coastal Awakening.

Please contact heather@slobg.org for a scholarship application.

The art show fundraiser will feature 20 local artists. This juried show will include jewelry, glass,

ANNOUNCEMENTS CONT'D . .



Hello folks,

Join us for the 7th in a series of webinars featuring Cactus and Succulent experts from around the world.

Peter Breslin presents: "[Cacti and Succulents Endemic to Baja California](#)"

Saturday, August 8, 10:00 PDT



Peter Breslin began Ph.D. studies at Arizona State University in the fall of 2014 and completed the Ph.D. in spring 2020, investigating questions regarding the biogeography and evolution of Cactaceae. Under the advisement of Martin Wojciechowski, with the help of committee members Lucas Majure, Shannon Fehlberg, Fabio Albuquerque and Jon Rebman. Breslin pursued research regarding the molecular phylogenetics, ancestral biogeography, climate change impacts on habitat suitability and population viability of the *Mammillaria* and *Cochemia* (Cactaceae) of Baja California and adjacent regions.

Breslin is one of the authors of *A Field Guide to Cacti and Succulents of Arizona*, published by the Tucson Cactus and Succulent Society, soon in its 3rd edition. He has been traveling to Baja California to find and photograph populations of rare cacti and succulents for the past 25 years. He recently moved to Los Angeles, CA, to teach biology and environmental science at Geffen Academy at UCLA, where he also hopes to continue several research projects.

To register for the webinar in advance log in:
https://us02web.zoom.us/webinar/register/WN_Gcus6zYsQeyOQT5ss_j4KQ

After registering, you will receive a confirmation email

We hope to see you!

Gunnar Eisel, Executive Director



MORE BRAG PLANTS . .

Kris Gorsuch . . a few years ago I bought a plant at Rob's annual sale. I believe it is a *Tylecodon Dinteri*. It lives in one of my pots.

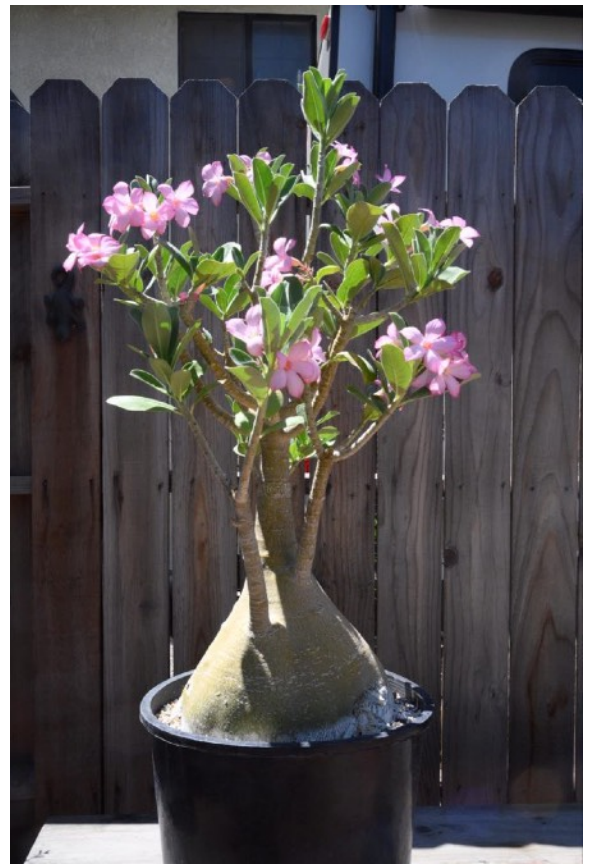


These are ~2015 and then present photos
The 1st (&2nd) is *Kalanchoe marmorata*
& the next I don't know!
I like how they're doing planted in the ground
—Laurie Aguilar



MORE BRAG PLANTS . .

Loring
Euphorbia bupleurifolia I have owned 7 years



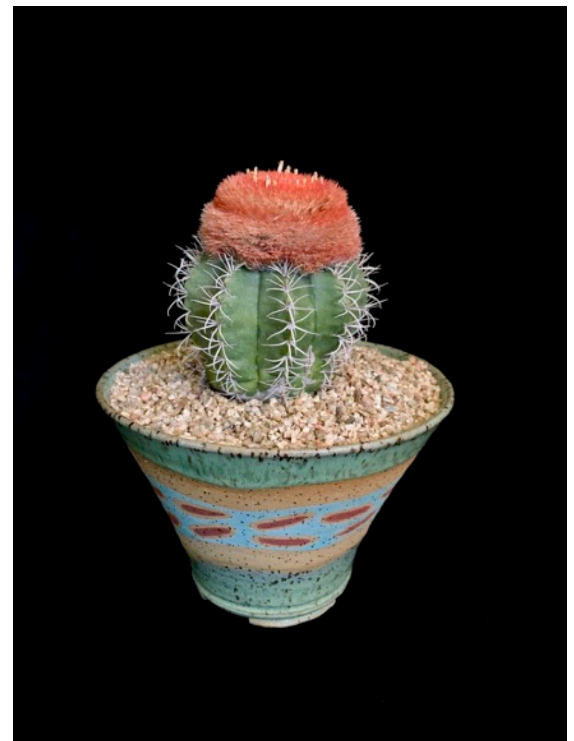
Adenium arabicum "Shada" 13 years old



Adenium arabicum compacta I have owned 1 year.



Linda Drake
Pachypodium horombense in
Mary Peraca pot



Linda Drake
Melocactus matanzanus
in Richard Rowe pot

and MORE BRAG PLANTS . .

Linda Drake



Gymnocalycium baldianum crest



Gymnocalycium baldianum

Echinopsis minima crest



Notocactus roseoluteus
(*Parodia mammulosus*) in
Richard Rowe Pot

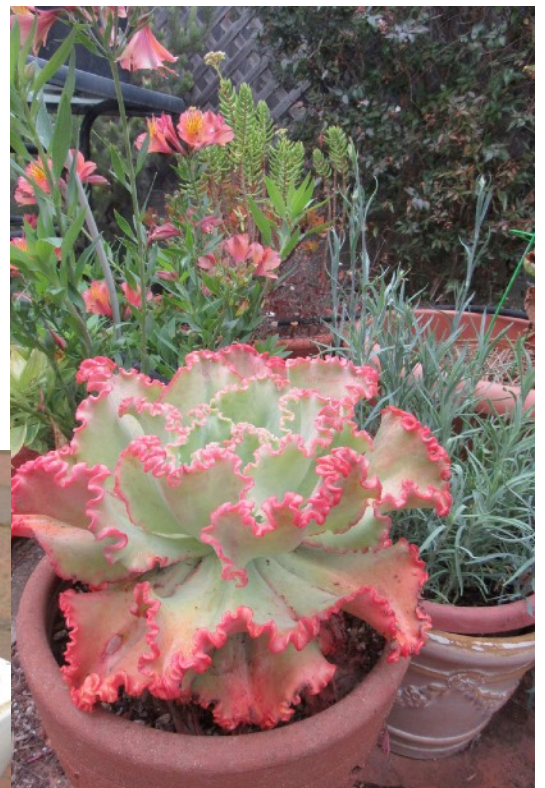
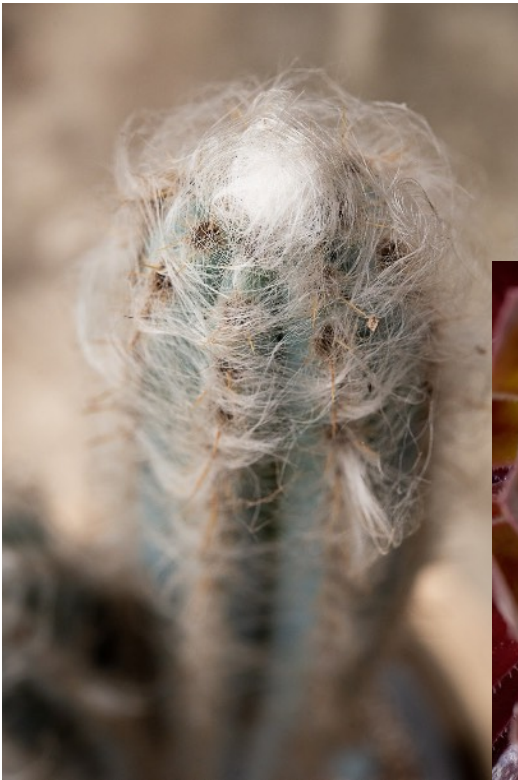
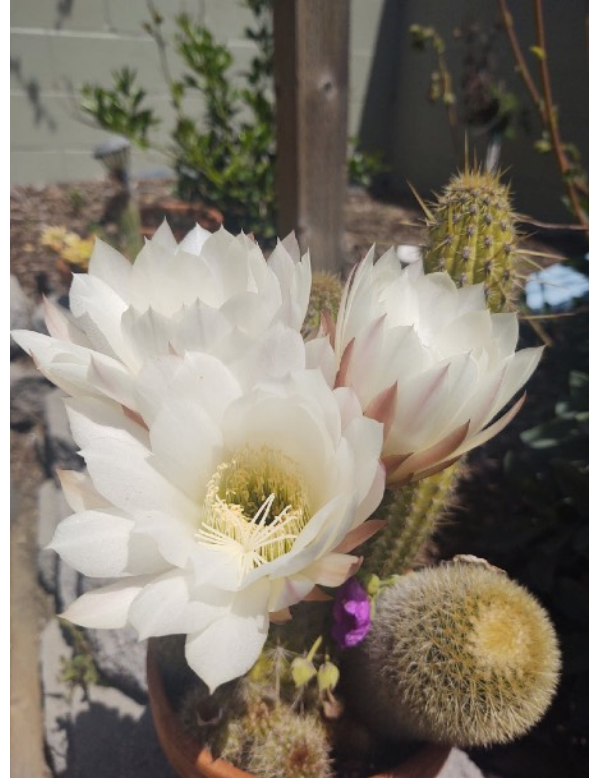


Echeveria agavoides "Beauty"
Crest in Charles Varni pot

and MORE BRAG PLANTS . .

Marcella Krebs

Artsy Photos from
Cindy Tarango

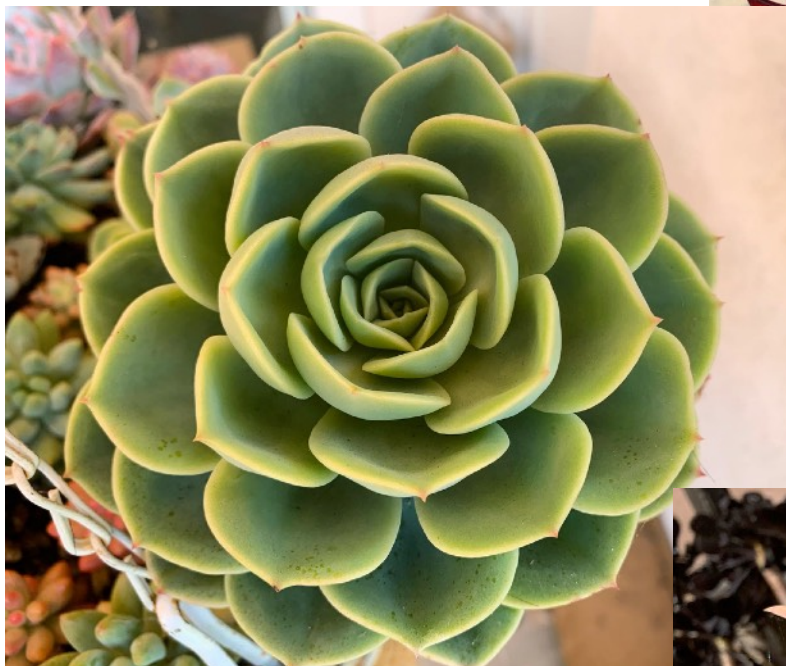


and MORE BRAG PLANTS..

Photos from Michael Roberts



Echeveria Red Edge aka "Lipstick"



Echeveria Pinwheel



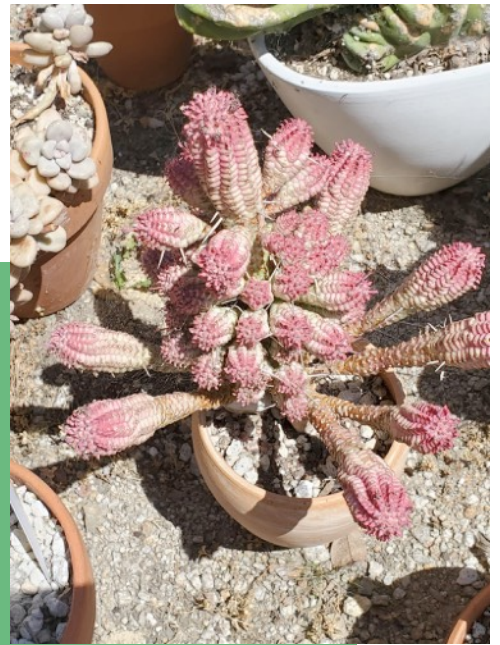
Dudleya Gasteii



Crassula falcata (propeller plant)

and MORE BRAG PLANTS..

from Laura Ann Oliver



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Please try to support local businesses as much as possible, including our valued Business Members on these pages. Click on images to visit their websites or to contact them via email. Many will take online or phone orders. Some are now on Etsy!

You can advertise on these pages by becoming a Business Member of CCCSS.

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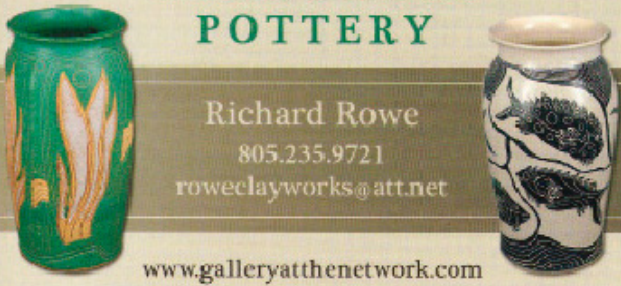
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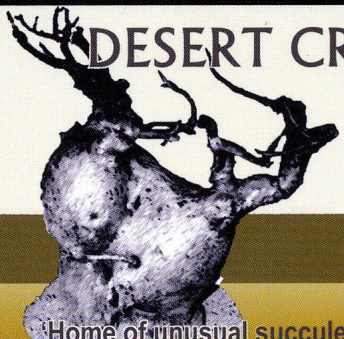
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NEW BUSINESS MEMBER

I am a ceramicist in Cambria (I sell my work at Grow Nursery) and will be launching my online shop.



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2020 - 2021 CCCSS Membership Dues are Payable Now

Dear CCCSS Members,

This year your membership renewal dues for 2020 – 2021 are payable only by mail. Please pay by check, made payable to CCCSS. Dues are as follows: Individual - \$20; Family, all under same roof - \$25; Business, \$40. Please mail your dues to Terry Skillin, 8910 Camino Cielo, Arroyo Grande, CA 93420. Please take a moment to renew your dues today. A membership application is not needed unless there are changes to your current membership status. Applications can be found online at <https://centralcoastcactus.org/home/membership-information/>



Photo by
Laura Ann Oliver