



Gary Duke

ZOOM PRESENTATION

Sunday, March 14 @ 1:30 pm

“Chile – Land of the Ancients”



I hope you are all staying well. The unseasonably warm weather has given me lots of work to do with repotting and watering. I was counting on the winter rains to do some of my work, but alas, not so.

Usually at this time of year we are preparing for the Annual Show and Sale which will not take place this year. This may give us more time to work on our plants. And, if you have extra plants, you could save them for a future sale.

**CALL FOR PHOTOS:** The Mini-show genera for March are Cactus: *Echinocereus* and Succulent: *Gasteria* and hybrids (so that includes *Gasteraloes*, *Gastroworthias*, etc.) Photos will be published and you will be given one Mini-show point each for a submitted photo of your cactus, succulent or garden (up to 2 points). Please include your plant’s full name if you know it (and if you don’t, I will seek advice for you). Let me know if you would prefer not to have your name published with the photos. The photos should be as high resolution as possible so they will publish well and should show off the plant as you would in a Mini-show. This will provide all of us with an opportunity to learn from one another and share plants and gardens. You may send as many photos as you like. E-mail them to me at [minniecap@icloud.com](mailto:minniecap@icloud.com) by March 13th so I may present them at the upcoming Zoom meeting.

We have had invitations from other clubs to join their Zoom meetings and posts will be sent via E-mail when available.

**Gary Duke** will be our speaker this month on his travels to Chile. The link for this month’s Zoom meeting is posted on Facebook and on the website. In addition, it will be recorded and available on YouTube for a short period of time. Please join in on Sunday, March 14th at 1 PM for social half hour and 1:30 PM for the presentation.

Stay well and keep in touch!  
MARIA CAPALDO

SHARE YOUR GARDEN OR YOUR FAVORITE PLANT



Email me with photos of your garden and/or plants that we can publish as a way of staying connected.  
[minniecap@icloud.com](mailto:minniecap@icloud.com)



To learn more visit [southcoastcss.org](http://southcoastcss.org)



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## “Chile – Land of the Ancients”

BY GARY DUKE



Gary shows 7 cacti and 5 succulent genera, to include about half of the known Copiapoa species. He also includes some geologic features and artwork. He includes about a 2 minute unique drone video of a couple of sites showing one mountainous site and one plateau site.

Gary Duke is an incumbent on the Board of Directors to the Cactus and Succulent Society of America. He currently assists with auditing the CSSA finances each year and also is a member of the Honors Committee. He has been collecting cacti and succulents for over 50 years. He’s an avid collector of cacti and also collects Tylecodons and Dudleyas.

Gary is a retired Air Force officer with a doctoral degree in physics. During his military career, he moved his original and ever expanding collection of less than about 30 plants from Illinois, where he grew up, to Omaha, NE, Dayton, OH (where he started their first C&S Society, which is now defunct), San Pedro, CA, Montgomery, AL and Albuquerque, NM where he had been show chairman.

Gary has also been President of the South Coast Cactus and Succulent Society and the Long Beach Cactus Society. Following his military career, he worked as a program manager for Boeing for 16 years.

Gary has over 1000 different species in his private collection and enjoys propagating them. One can view some plants in his collection on his Instagram site: [garyduke53](#). He frequently gives slide presentations throughout southern California, including being invited to speak at the Huntington Botanical Gardens and at the Denver Cactus and Succulent Society. He has traveled to Aruba, Peru, Baja Mexico, Bolivia, Argentina and Chile to see cacti and succulents in habitat.





What's in your garden?

Garden by **Bill Wilk**



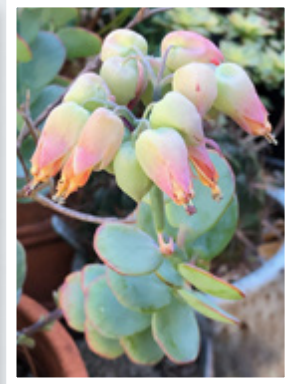
*Kalanchoe marmorata*



*Kalanchoe* 'Parseltongue'



*Kalanchoe* 'Parseltongue' seedling



*Kalanchoe marnieriana*

Bill! Thank you for sharing.  
What's in your garden?

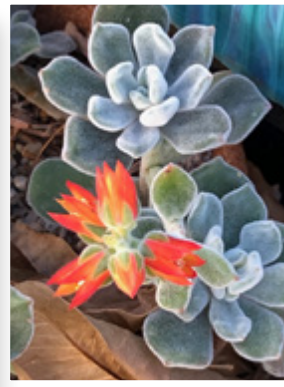
[minnicap@icloud.com](mailto:minnicap@icloud.com) share by March 13, 2021

## What's in your garden?

Garden by **Bill Wilk and Joe Tillotson**



*Echeveria pulvinata* 'Rubra' by Bill Wilk



*Echeveria pulvinata* 'Frosty'  
by Bill Wilk



*Aloe* 'Safari Rose'  
by Bill Wilk



*Aloe bellatula*  
by Bill Wilk



*Kalanchoe luciae* by Joe Tillotson

Bill and Joe, thank you for sharing!  
What's in your garden?

[minnicap@icloud.com](mailto:minnicap@icloud.com) share by March 13, 2021



What's in your garden?

Garden by Corey Zedler



*Aloe thraskii*



*Aloe ferox*



*Euphorbia clandestina*



*Euphorbia multifolia*

Corey, thank you for sharing!  
What's in your garden?

[minnicap@icloud.com](mailto:minnicap@icloud.com) share by March 13, 2021



# What's in your garden?

Garden by *Jim Gardner*



Hybrid Mangaves among *Aloe maculata*



*Aeonium* 'Suncup'



*Aeonium* 'Jack Catlin'



*Echeveria* species



*Echeveria chihuahuensis*



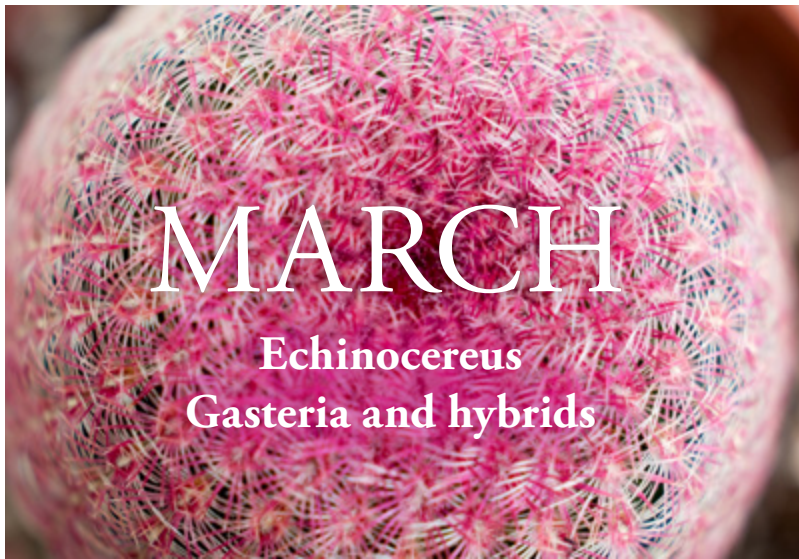
*Tylecodon schaeferianus*

Jim, thank you for sharing!  
What's in your garden?

[minnicap@icloud.com](mailto:minnicap@icloud.com) share by March 13, 2021



# Mini - Show Plant Calendar



## Mini-Show Plants for 2021

March 2021	Echinocereus	Gasteria and hybrids
April 2021	Your favorite Cactus (POM)	Your favorite Succulent (POM)
May 2021	Coryphantha, Escobaria, Acharagma	Dudleya, Cotyledon
June 2021	Gymnocalycium	Pachypodium
July 2021	Lobivia, Echinopsis	Sansevieria
August 2021	Ferocactus, Leuchtenbergia	Stapeliads (Stapelia, Huernia, Orbea)
September 2021	Discocactus, Uebelmania	Kalanchoe
October 2021	Miniature (3 inches or less)	Miniature (3 inches or less)
November 2021	North American Columnar Cacti (Saguaro, Cereus, etc.)	Senecio
December 2021	HOLIDAY POTLUCK???	HOLIDAY POTLUCK???
January 2022	Mammillaria single headed	Lithops, Conophytum
February 2022	Stenocactus, Echinofossulocactus	Euphorbia from Madagascar





FEBRUARY

Virtual Mini-Show: **SUCCULENT/NOVICE**

SUCCULENT CATEGORY: NOVICE



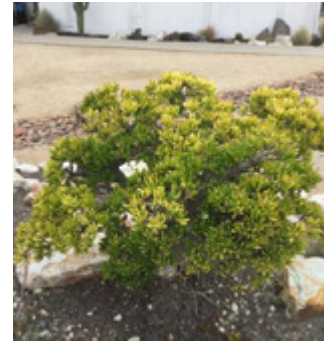
*Crassula deceptor*  
by Gretchen Davis



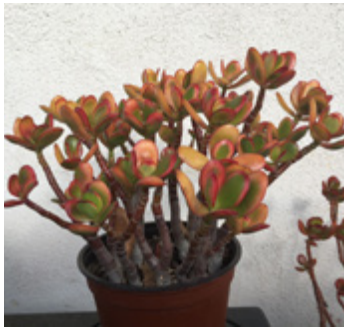
*Crassula lycopodioides*  
by M.A. Bjarkman



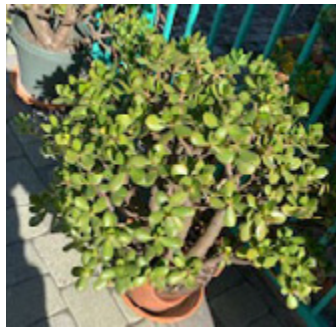
*Crassula mesembryanthemopsis*  
by Gretchen Davis



*Crassula ovata* 'Gollum'  
by Terri Straub



*Crassula ovata*  
by Jim Tanner



*Crassula ovata*  
by Joe Tillotson



*Crassula ovata* 'Ripple Jade'  
by M.A. Bjarkman



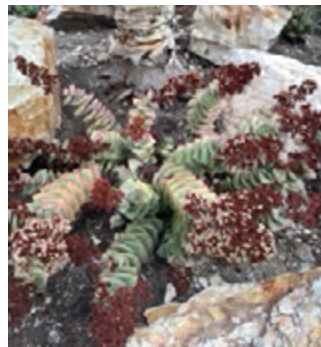
*Crassula ovata* (In flower)  
by Jim Tanner



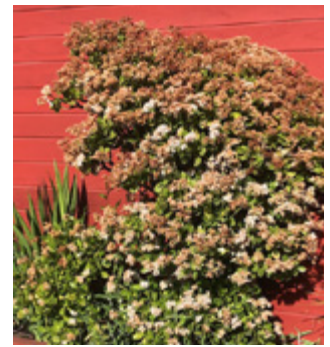
*Crassula ovata*  
by Joe Tillotson



*Crassula perforata*  
by M.A. Bjarkman



*Crassula perforata*  
by Terri Straub



*Crassula ovata*  
by M.A. Bjarkman



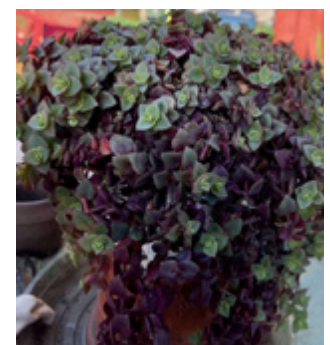
*Crassula streyi*  
by M.A. Bjarkman



*Crassula streyi*  
by Gretchen Davis



*Crassula pubescens*  
by M.A. Bjarkman



*Crassula sarmentosa* 'Calico Kitten'  
by M.A. Bjarkman





FEBRUARY

Virtual Mini-Show: CACTUS/NOVICE

CACTUS CATEGORY: NOVICE



*Eriosyce islayensis*  
by Terri Straub



*Eriosyce heinrichiana*  
by Gretchen Davis



*Eriosyce subgibbosa*  
by Terri Straub



FEBRUARY

Virtual Mini-Show: CACTUS/INTERMEDIATE

CACTUS CATEGORY: INTERMEDIATE



*Neoporteria cachtayensis*  
by Bernard Johnson



*Eriosyce villosa*  
by Bernard Johnson



*Eriosyce heinrichiana*  
by Anita Caplan





FEBRUARY

Virtual Mini-Show: **SUCCULENT / INTERMEDIATE**

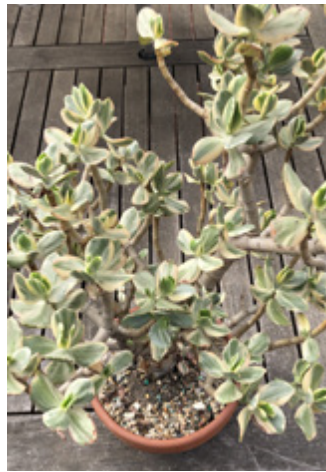
SUCCULENT CATEGORY: INTERMEDIATE



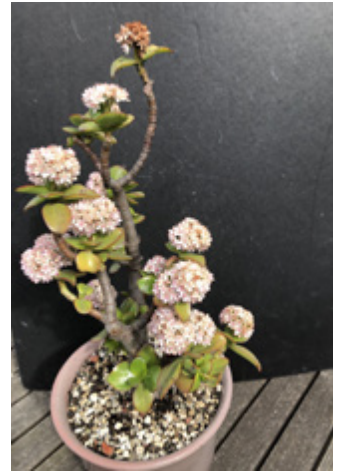
*Crassula ovata*  
by Anita Caplan



*Crassula arborescens*  
by Dale La Forest



*Crassula ovata* 'Tricolor'  
by Dale La Forest



*Crassula ovata* 'Hummel's  
Sunset'  
by Dale La Forest



*Crassula multicava* 'Ngabara'  
by Mike Short



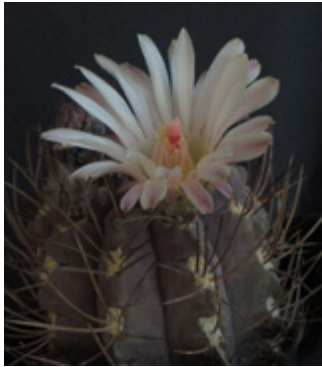
*Crassula ovata* 'Hummel's Sunset'  
by Mike Short





Virtual Mini-Show: CACTUS/OPEN

CACTUS CATEGORY: OPEN



*Eriosyce taltalensis*  
subs. *paucicostata* by Maria Capaldo



*Eriosyce senilis*  
by Phyllis DeCrescenzo



*Neoporteria* (*Eriosyce*) Multicolor  
by Maria Capaldo



*Neoporteria* (*Eriosyce*) Multicolor  
by Maria Capaldo



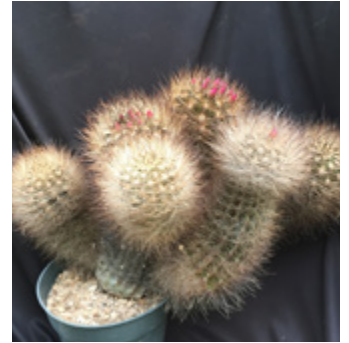
*Neoporteria chilensis* v. *albidiflora*  
by Maria Capaldo



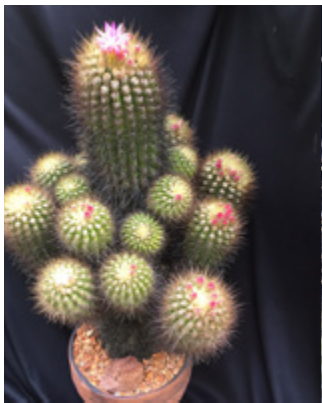
*Neoporteria nidus-senilis*  
by Maria Capaldo



*Neoporteria senilis* v. *nidus*  
by Gary Duke



*Neoporteria subgibbosa*  
by Gary Duke



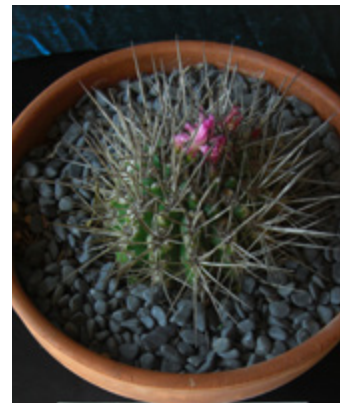
*Neoporteria subgibbosa*  
v. *castanae* by Gary Duke



Close-up: *Neoporteria subgibbosa*  
v. *castanae* by Gary Duke



*Neoporteria villosa*  
by Laurel Woodley



*Neoporteria wagenknechtii*  
by Phyllis DeCrescenzo





Virtual Mini-Show: **SUCCULENT/OPEN**

SUCCULENT CATEGORY: OPEN (Continued next page)



*Crassula ovata* 'Hummel's Sunset' by Phyllis DeCrescenzo



*Crassula ovata* 'Hummel's Sunset' by Sally Fasteau



*Crassula* 'Springtime' by Laurel Woodley



*Crassula* 'Springtime' by Phyllis DeCrescenzo



*Crassula arborescens* by Laurel Woodley



*Crassula arborescens* ssp. *undulatifolia* by Phyllis DeCrescenzo



*Crassula* 'Baby's Surprise' by Laurel Woodley



*Crassula brevifolia* by Laurel Woodley



*Crassula* 'Campfire' by Laurel Woodley



*Crassula capitella* ssp. *thyrsiflora* by Laurel Woodley



*Crassula columella* by Gary Duke



*Crassula deceptor* (big form) by Laurel Woodley



*Crassula deceptor* by Phyllis De Crescenzo



*Crassula* 'Scarlet Paintbrush' by Laurel Woodley



*Crassula lactea* by Laurel Woodley



*Crassula marginalis rubra* variegated - 'Calico Kitten' by Laurel Woodley





FEBRUARY

Virtual Mini-Show: **SUCCULENT/OPEN**

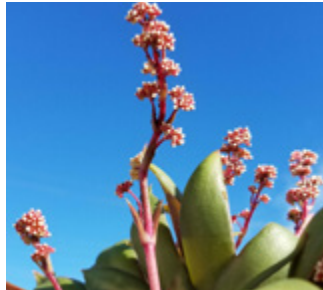
SUCCULENT CATEGORY: OPEN (Continued from previous page)



*Crassula mesembryanthemoides*  
by Maria Capaldo



*Crassula mesembryanthemoides*  
by Laurel Woodley



*Crassula orbicularis* var.  
*rosularis* by Laurel Woodley



*Crassula ovata* 'Hummel's  
Sunset' by Laurel Woodley



*Crassula ovata*  
by Maria Capaldo



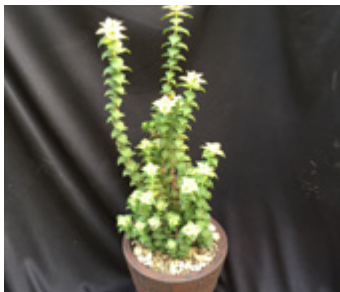
*Crassula perforata* var. *falcata*  
by Laurel Woodley



*Crassula ovata* 'Tricolor'  
by Maria Capaldo



*Crassula ovata* 'Tricolor'  
by Sally Fasteau



*Crassula perforata*  
by Gary Duke



*Crassula perforata*  
by Phyllis DeCrescenzo



*Crassula ovata* var.  
by Gary Duke



*Crassula ovata* variegata  
by Laurel Woodley



*Crassula ovata* 'Pink'  
by Laurel Woodley





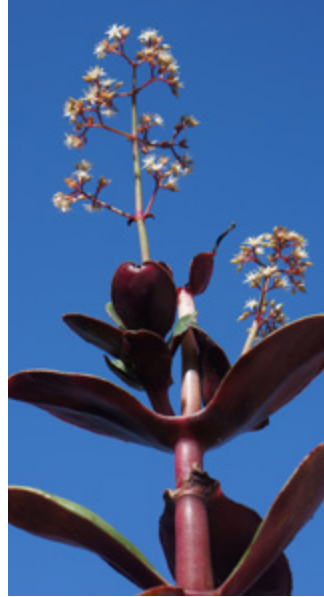
FEBRUARY

Virtual Mini-Show: **SUCCULENT/OPEN**

SUCCULENT CATEGORY: OPEN (Continued from previous page)



*Crassula rupestris*  
by Jim Gardner



*Crassula steryi*  
by Laurel Woodley



*Crassula tetragona*  
by Laurel Woodley



*Crassula perforata* variegated  
by Phyllis DeCrescenzo



*Crassula rupestris*  
by Laurel Woodley



*Crassula rupestris*  
by Sally Fasteau



*Crassula sarcocaulus*  
by Laurel Woodley





MARCH

## Monthly Succulent: Gasteria

*Ed: Hybrids between Gasteria and other genera are allowed, including Gasteraloe (=Gastrolea), Gasterhaworthia (=Gasworthia, Gastworthia), Gasterolirion, and Gastroloba.*

*There is an excellent article by Geoff Stein on the Dave's Garden website at <https://davesgarden.com/guides/articles/view/2915/>*

**Gasteria** is a genus of succulent plants, native to South Africa (and the far south-west corner of Namibia).

The genus is named for its stomach-shaped flowers (“gaster” is Latin for “stomach”). Common names include ox-tongue, cow-tongue, lawyer’s tongue and, occasionally, mother-in-law’s tongue.

Gasterias are recognisable from their thick, hard, succulent “tongue-shaped” leaves. Their inflorescence is also unique, with their curved, stomach-shaped flowers, which hang from inclined racemes.

The species of this genus are mostly native to the Eastern Cape Province, South Africa, where the bulk of the species occur – especially in the small area between Grahamstown and Uniondale which enjoys rainfall throughout the year. However distribution of several species extends widely across the low-altitude coastal regions of the country, in an arched horseshoe shape across South Africa. At the one end of the genus’s distribution, a species *Gasteria pillansii* extends into the far south-west corner of Namibia. At the other end, a species reaches the Lebombo mountains of Swaziland.

Gasteria species are grown in well-drained, sandy soils in light shade. The species can all be propagated by off-sets and cuttings (leaf cuttings can usually be rooted easily). They are also commonly propagated by seed. Germination usually occurs within 8 days but may take as long as one month depending on the species.



By Tom Glavich

### Succulent: Gasteria



*Gasteria croucheri*



*Gasteria batesiana*



*Gasteria baylissiana*



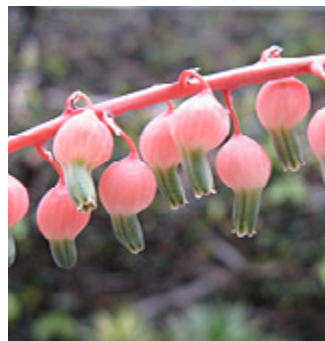
*Gasteria disticha*



*Gasteria ellaphieae*



*Gasteria excelsa*



*Gasteria flowers*



*Gasteria glomerata*





## Monthly Succulent: Gasteria

**Gasteria** species are prone to Fusarium root rot, if they are over-watered.

Several hybrids with species in other related genera have been created in cultivation, such as between *Gasteria* and *Aloe* ( $\times$ *Gasteraloe*), and between *Gasteria* and *Haworthia* ( $\times$ *Gasterhaworthia*).

*Gasteria* is part of the family Xanthorrhoeaceae, subfamily Asphodeloideae. Closely related genera include *Aloe* and *Haworthia*, and the species of these genera are known to hybridise relatively easily with each other.

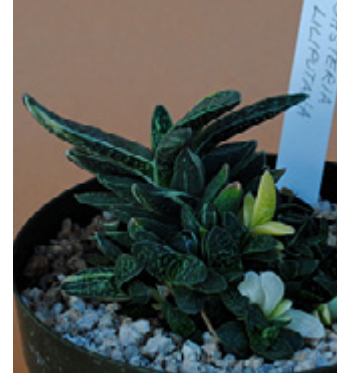
Dividing *Gasteria* into species is extremely difficult, as each plant can be highly variable. One plant will look different depending on its location, its soil and its age. Young *Gasteria* plants typically look entirely different to older specimens. (Usually, young plants have flat, strap-shaped, highly tubercled leaves, in a distichous formation.) In addition, the species tend to flow into each other in gradual transitions, with many intermediate forms, rather than being cleanly divided into discrete and separate species. Lastly, hybrids occur easily and naturally, whenever the range of two species overlap in habitat.

There is therefore considerable disagreement on how many species exist, with as many as 100 names being listed. Current studies tend to agree that there are between 16 and 23 species.

### Succulent: Gasteria



*Gasteria gracilis*  
f. *variegata*



*Gasteria liliputana*



*Gasteria nitida*



*Gasteria pillansii*  
f. *variegata*



*Gasteria pillansii*



*Gasteria rawlinsonii*



By Tom Glavich





MARCH

## Monthly Cactus: Echinocereus

**Echinocereus** is a genus that is much loved by cactus growers world-wide. There are several characteristics that collectively account for their popularity. All Echinocereus are small plants that are quite suitable for growing in pots and greenhouses.

The stems of this genus are more often than not under a foot in height and perhaps 2 or 3 inches in diameter. Some are slightly bigger, some smaller. In the wild, some species may form large mounds of many hundreds of stems, but this takes many years and these same species are still quite manageable in cultivation.

There is a wide variety of spination that includes some of the most fierce and dramatic spines covering the plant stem so that it is not even visible. Most have moderately sized spines evenly distributed, some have very colorful spines even in alternating patterns. Some have pectinate (comb-like) spines and some are nearly spineless. The spines are arranged on ribs.

Aside from being a cultivation-friendly size, Echinocereus have some of the most brilliant flowers of the cactus family. They range in color from electric-pink to deep scarlet to translucent browns and greens and even bright yellow. Many species feature two-toned flowers with one color toward the center and another color on the outer parts of the flower.

One particular population exists in New Mexico, USA of naturally occurring hybrids that display much of this color range on one hillside from plant to plant. The flowers can be 3 inches or more in diameter and feature spiny floral tubes. Close examination reveals that the flowers actually break through the epidermis of the stem as do any new offsetting stems.

In the wild, Echinocereus range from as far north as South Dakota, USA and south through most of Mexico. They inhabit a wide range of habitats growing under Ponderosa forests to coastal plains; from low elevation deserts to mountainsides of 8000 feet or more. There can be a tremendous amount of variation within species and this can make identification especially tricky in some instances.

Cactus: Echinocereus



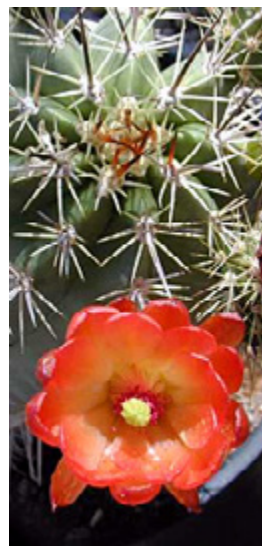
*Echinocereus pseudopectinatus*



*Echinocereus rigidissimus*  
ssp. *rubispinus*



*Echinocereus viridiflorus*



*Echinocereus triglochidiatus*



By Tom Glavich



# Latin Lookup

Loquerisne Latine (Do you speak Latin)?  
The meanings of latin plant names on the previous pages  
– from <http://davesgarden.com/guides/botany/>

## SUCCULENT

**batesiana** [bate-see-AH-nuh, bate-see-AY-nuh]  
Named for George Latimer Bates, 20th century American ornithologist and botanist in West Africa.

**baylissiana** [bay-liss-ee-AH-na] Named for Colonel Roy Bayliss, a botanical explorer in South Africa and authority on succulents.

**disticha** [DIS-tik-uh]

1. Two-ranked.
2. leaves erect in a fan shape.

**ellaphieae** [el-la-FY-aye] Named for Johanna Ellaphie Ward-Hilorst, 20th century South African botanical artist.

**excelsa** [ek-SEL-suh] Tall.

**Gasteria** [gas-TAIR-ee-uh] From gaster, (belly, stomach); referring to swollen base on flower.

**glomerata** [glahtm-er-AH-tuh] Clustered.

**gracilis** [GRASS-il-is] Graceful; slender.

**liliputana** [lil-ee-pyoo-TAH-na] Tiny.

**nitida** [NI-ti-duh] Shiny, glossy.

**pillansii** [pil-AN-see-eye] Named for Neville Stuart Pillans, 20th century botanist.

**variegata** [var-ee-GAY-tuh] Variegated.

## CACTUS

**berlandieri** [bur-lan-dee-ER-ee] Named for Jean Louis Berlandier, 19th century botanist.

**chloranthus** [klo-RAN-th-us] Green-flowered.

**dasyacanthus** [day-see-uh-KAN-thus] Lots of spines, thick spines.

**Echinocereus** [ek-in-oh-KER-ee-us, ek-in-oh-SER-ee-us] From the Greek echinos, (porcupine) and cereus, referring to the shape of the floral tube.

**fendleri** [FEND-ler-ee] Named for August Fendler, 19th century German plant collector.

**knippelianus** [ni-pel-ee-AY-nus] Named for Karl Knippel.

**nivosus** [niv-OH-sus] Snow white.

**pseudopectinatus** [soo-do-pek-tin-AY-tus]  
From the Greek pseudo (false) and pectinatus (comb).

**rigidissimus** [rig-id-ISS-ih-mus] Very rigid, most rigid.

**rubispinus** [roo-bih-SPIN-us] Red-colored spines.

**triglochidiatus** [try-glo-ky-dee-AY-tus, try-glo-kid-ee-AY-tus] From the Greek tri (three) and glochis (a point), referring to the fruit of some species.

**viridiflorus** [vir-id-uh-FLOR-us]  
Green flowers.





MARCH

## SCSS Mini-Show 2021 Standings

[Click here for sortable standings](#)

Novice Class	Cactus	Succulents	Total
Bjarkman, M.A.	0	2	2
Davis, Gretchen	2	2	4
Nisewaner, John	1	1	2
Straub, Terri	2	2	4
Tanner, Jim	2	2	4
Tillotson, Joe	0	2	2
Zedler, Cory	0	2	2

Intermediate Class	Cactus	Succulents	Total
Caplan, Anita	1	3	4
Johnson, Bernard	2	2	4
LaForest, Dale	0	2	2
Short, Mike	2	2	4

Open Class	Cactus	Succulents	Total
Capaldo, Maria	2	2	4
DeCrescenzo, Phyllis	2	2	4
Duke, Gary	2	2	4
Fasteau, Sally	1	3	4
Gardner, Jim	1	3	4
Wilk, William	0	2	2
Woodley, Laurel	2	2	4

### Mini-show Virtual Points

One (1) Mini show point each for a submitted photo of your cactus and succulent (up to 2 points)

Up to two (2) points for those submitting garden photos if you had **not** submitted Mini-show photos.





## Upcoming Events

[Click here for Full List](#)



SOUTH COAST  
CACTUS & SUCCULENT  
SOCIETY

### ZOOM MEETING

“Chile – Land of the Ancients”

Sunday, March 14, 2021

Join the zoom meeting:

<https://us02web.zoom.us/j/88019488807?pwd=b09oZmtKWdZXT283U-jVGVmJNSnNxZz09>

**Speakers:**

Gary Duke

**Start time:**

1:30 pm



[For more information and to learn more](#)

## 2021 Board of Directors

### OFFICERS:

President

**Maria Capaldo**

Vice President

**M.A. Bjarkman**

Secretary

**Sue Wong**

Treasurer

**Bernard Johnson**

AT LARGE BOARD  
MEMBERS:

**Terri Straub**

**Clif Wong**

**Corey Zedler**



### STANDING COMMITTEE CHAIRS:

Communications

**Mike Short**

Finance

**Jim Hanna**

Membership

**Sally Fasteau**

Programs

**Gary Duke**

Show and Sale

**Open**



### COMMITTEE MEMBERS (TASKED):

Mini-Show Coordinator

**Jim Tanner**

Publicity (Show)

**Open**

Publicity (Monthly)

**Ann Nye**

Speaker Coordinator

**Jade Neely**



### LIAISONS:

CGCI

**Lou Hagemeier**

CSSA

**M.A. Bjarkman**

OTHER POSITIONS:

Facebook

**Laurel Woodley**

Instagram

**Caitlin Rubia**

Hospitality/Refreshments  
Volunteers

Newsletter

**Clif Wong**

Webmaster

**Mike Short**

Plant Man

**Jim Hanna**

