



Open Gates

A publication of the
Gates Cactus & Succulent Society
March 2018



NEXT MEETING, WEDNESDAY, March 7th at 7:00 PM
AT THE REDLANDS CHURCH OF THE NAZARENE
1307 E CITRUS AVE, IN REDLANDS, CA

Plants of the Month

Cactus – Notocactus,
Parodia

Succulent – Dudleya

Save the Date!

MAR. 22-24 - ORANGE COUNTY CACTUS AND SUCCULENT SOCIETY SPRING

APR. 7-8 - SOUTH COAST CACTUS AN SUCCULENT SOCIETY SHOW & SALE

APR. 29 - HUNTINGTON PLANT SALE

From the President:

Hi everybody! Thank you everyone who have renewed your club membership for this year. Your support is always greatly appreciated and I am confident that you will continue to get immeasurable values in return from the club. Let's also give some big kudos to our speaker last month. Not only did Jeff Moore presented another quality slide show on succulents but he also introduced us his newly publish succulent book. His book contains many awesome pictures of succulent along with pertinent information on the plants. The club has acquired a copy for our library collection so be sure to check it out when you get a chance. And while you are there, be sure to browse through the many other new additions in the library.

This month's speaker needs little introduction as he is a long-time member of the club and a regular participant to our many yearly events. You can read about Woody Minnich's newly revised biography and his upcoming club presentation in the following pages.

Please keep this month's newsletter nearby as it will provide you with many other succulent events happening this month. Most recently, Rene Hernandez and I presented a talk on succulent propagation and growing from seeds at the Palms to Pine Garden Festival. Several other club members also participated at this event. Don't miss out on the upcoming Super Succulent Celebration happening at the end of this month. The announcement is in this newsletter and I will be updating on some new development to this event at our meeting. What better way to spend your Wednesday night than to be in the company of other succulent fanatics...

Regards, Phuc.

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Leadership Team 2018

Our Program This Month

Woody Minnich

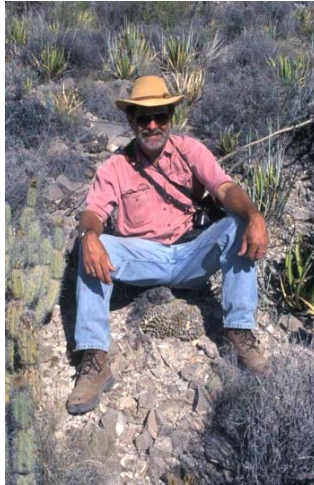
"The New, Rare and Seldom Seen Cacti and Succulents of Mexico"

Mexico is considered by many to be one of the richest regions in the world for cacti. From the United States to the north, to its southern border of Guatemala, there are an amazing number of genera and species to be found. These range from the tiny *Turbinicarpus* to the giant *Pachycereus*. Within the reaches of Mexico, there are many diverse geologic environments. These habitats vary from the coastal and inland low lands to its many high mountain niches. For almost 50 years, I have been lucky enough to have traveled most all of Mexico. Thus, my favorite regions for exploring include the most popular Baja California, to the mysterious Sierra Madre Occidental, and the succulent rich Sierra Madre Oriental.

The ever-popular genera of: Agave, *Dasylerion*, *Fouquieria*, *Ariocarpus*, *Astrophytum*, *Aztekium*, *Echeveria*, *Gymnocactus*, *Mammillaria*, *Pelecephora* and *Turbinicarpus*, are just a few of the genera where the addition of new species has become common.

Due to all of the excitement and interest in these new plants, there have been numerous negative side effects that have evolved. This increased interest

in these new plants, combined with the commercial powers of the internet/google, has created new distribution avenues for the marketing of the rare and or endangered species. Plants I have seen for many, many years are now facing new threats from commercial collecting. CITIES and the enforcement of local and international laws, regarding illegally collected plants, has had very little impact on curtailing the destruction of specific plant populations. This is especially true when plants are new or highly desired because of their scarcity in the collector's circuit.



Come join me, as I will show you many of the new cacti and other succulents of Mexico. Also, I hope to share with you what is happening to these wonderful plants, partly as a result of our new electronic world and the power of money!

BIO

Woody, as he is commonly known, grew up in the Mojave Desert and has had an attraction to desert plants and animals since the early 1950's. He has been involved with the cactus and succulent world as a grower, field explorer, club and organization leader, writer, photographer, lecturer and presenter.

Having been a speaker all over the world, Woody is most often associated with giving presentations on his field work from the places he has traveled, such as: Argentina, Australia, Bolivia, Brazil, Chile, Madagascar, Mexico, Namibia, New Zealand, Peru, Socotra, South Africa, the United States and Yemen. He is also recognized for having operated the nursery Cactus Data Plants since 1975. Woody's show quality plants were often considered one of the standards for staging and horticultural achievement. His favorite genera include: *Adenium*, *Ariocarpus*, *Astrophytum*, *Copiapoa*, *Cyphostemma*, *Fouquieria*, *Gymnocalycium*, *Lithops*, *Mammillaria*, *Melocactus*, *Pachypodium*, *Turbinicarpus* and *Pachycauls* in general.

He has published numerous articles in various journals and his photography is featured in many books including; "The Copiapoa" by Schulz, "The Mammillaria Handbook" by Pilbeam, "The Cactus Lexicon" By Hunt and Charles, as well as many others. As of this last November 2017, he is featured as the primary photographer in the new book "The Xerophile." This book specializes in what the authors call, The Obsessed Field workers from around the world.

Woody and his wife, Kathy, live in Cedar Grove, New Mexico. He is a retired secondary school teacher of 32 years where he taught Graphics, Art and Architecture. In the cactus and succulent hobby, Woody is recognized for his high energy and creative spirit. As an educator, he has become an important part of the hobby and thus is an honorary life member of ten C&S societies. With 45 years in the hobby and 64 years in the field, he has many experiences to share and numerous photos to show.

Mini Show 2017 Results

Please remember to CLEARLY fill out the Mini show entry forms. **Incomplete or illegible forms will be disqualified.**

Please note, we will no longer have the Large and Small categories.

Cactus

Novice

Intermediate

1st Cephalocereus senilis – Judy Horne

2nd Echinocereus rigioissimus - Ann

Reynolds

3rd Cereus spec. – Judy Horne

Advanced

1st Mammillaria supertexta - Greg & Anna Cavanaugh

2nd Mammillaria hahiana - Greg & Anna Cavanaugh

Succulent

Novice

Intermediate

1st Gaster aloë “green ice” – Mike Madrigal

2nd Haworthia viscosa – Rene Hernandez

3rd Gasteria viokii – Mike Madrigal

Advanced

1st Haworthia truncate – Greg and Anna Cavanaugh

2nd Gasteria marmorata – David Hawks

3rd Haworthia mirabilis – Sandy Wall



Announcing...
Super Succulent Celebration 2018
“A Walk on the Wild Side”
Featuring...
The Drama of Cactus & Succulents
Starring...
Spring Blooming Opuntias
Succulent Magic
Artistic Sculptural Cacti
Don't Miss the Adventure!
Friday & Saturday March 23rd - 24th
Waterwise Botanicals - 32151 Old Hwy 395 - Bonsall, CA 92003

Membership Renewal

It's time to renew your memberships.

The dues for **mail** membership are \$35 dollars and **email** membership renewal is \$20 dollars for the year. A membership renewal form is on the last page of this newsletter for your convenience. You can renew your membership with Jo Ann Crabtree at our next meeting or you can mail in your renewal.

Ask the Experts

Have a mystery plant? would you like to know the species name of your plants? Well the experts are here to help! Bring in your plant, or a good picture, to our next meeting and we will call on our expert members to help solve your mystery

2018 Upcoming Events

- MAR. 22-24 ORANGE COUNTY CACTUS AND SUCCULENT SOCIETY SPRING SHOW AND SALE THURS. 22nd 6-9PM---FRI. MAR. 23rd 9-7PM---SAT. MAR. 24TH 9-5
1000 S. State College Bl., (Anaheim United Methodist Church) Anaheim, CA
INFORMATION CALL 562-587-3357
- APR. 7-8 SOUTH COAST CACTUS AN SUCCULENT SOCIETY SHOW & SALE
9-4 pm SOUTH COAST BOTANICAL GARDENS
26300 CRENSHAW BLVD., PALOS VERDES, CA
INFO: heidihusnak@gmail.com or <http://www.southcoastcss.org>
- APR. 29 HUNTINGTON PLANT SALE 10 to 5pm HUNTINGTON BOTANICAL GARDENS, 1151 OXFORD ROAD, SAN MARINO, CA. 626-405-3504
- MAY 5-6 SUNSET CACTUS AND SUCCULENT SOCIETY SHOW AND SALE
VETERANS MEMORIAL CENTER, GARDEN ROOM
4117 OVERLAND AVE., CULVER CITY, CA. INFO. 310-822-1783
- MAY 6 SOUTH BAY EPIPHYLLUM SOCIETY SHOW AND SALE---9am to 4pm
SOUTH COAST BONTANICAL GARDENS, INFO. 310-833-6823
- MAY 11-12 GATES CACTUS AND SUCCULENT SOCIETY SHOW AND SALE
FRI & SAT 9-4:30 pm, INFORMATION ON LOCATION CALL 909-910-9195
- MAY 19-20 LONG BEACH CACTUS CLUB PLANT SHOW AND SALE 10-4 pm
RANCHO LOS ALAMITOS, 6400 BIXBY HILL ROAD, LONG BEACH, CA INFO. 562-631-5876
- MAY 26-27 CENTRAL COAST CACTUS & SUCCULENT SOCIETY
ANNUAL SHOW & SALE (10-4PM), LUDWICK CENTER, 864 SANTA ROSA
SAN LUIS OBISPO, CA – INFO. 805-237-2054, www.centralcoastcactus.org

Parodia* and *Notocactus

By Tom Glavich

Parodia is a genus of cacti named after the Argentinian botanist Lorenzo Raimundo Parodi (1895-1966). *Notocactus* is a genus of cacti named after the German botanist Karl Moritz Schumann (1851-1904). *Parodia* and *Notocactus* are members of Franz Buxbaum's (Austrian botanist, 1900-1979) tribe *Notocactinae* that consists of mostly globular genera exclusive to South America. *Notocactinae* was then subdivided into four sub-tribes:

1. *Corryocactus*, *Austrocactus*, *Eriosyce*, *Pyrrhocactus*, *Eulychinia*.
2. *Neoporteria*, *Islaya*, *Copiapoa*.
3. ***Notocactus*, *Parodia*, *Blossfeldia*, *Frailea***¹
4. *Discocactus*, *Melocactus*.

Parodia and *Notocactus* belong to a group of short-columnar to globular and dwarf genera. There is a further "unofficial" division of this sub-tribe according to altitude: lowland (the pampas) and highland (high mountains).

Notocactus are found in the lowlands at relatively low altitudes (below 3,000 feet). They are located primarily in the recesses of low rocky hills in the grasslands and forests. *Notocactus* distribution is very wide, primarily in southern Brazil and Uruguay, with various species found in Paraguay, and a few found in northeastern Argentina.

Parodia are found in the highlands at altitudes ranging from 1,500 to 12,500 feet. They are located mostly in the eastern mountains and foothills of Argentina, Bolivia and Paraguay.

The current theory is there was originally an ancestor of these genera that divided into the mountainous branch of *Parodia* and the lowland branch of *Notocactus*.

These two genera were combined, at some controversy. In 1986, the preliminary findings of the International Organization for Succulent Plant Studies (IOS), inter alia, included the genus *Notocactus* within the genus *Parodia* (*Bradleya* 4 :65-78, 1986). Suffice it to say that not everyone agrees.

The cacti that were in the genus *Parodia* before the merge generally do better in winter if kept above 50°F to avoid completely dormancy as they are much more likely to lose their roots, and can be slow to restart in the Spring. Species in the old genus *Notocactus* are fairly cold resistant and can be used in outdoor cactus gardens.

Parodia herteri



Parodia (Notocactus) claviceps



Dudleya

Tom Glavich

Dudleya are members of the *Crassulaceae* family, and along with *Echeveria*, *Pachyphytum*, and *Sedum* form the principal members of the succulent New World *Crassulaceae*. *Dudleya* range along the west coast of Mexico, north to Oregon and inland into Nevada and Arizona.

In spite of their close appearance to the other New World *Crassulaceae*, they are distant relatives to all of the other genera. Hybrids between *Dudleya* and *Echeveria* and *Pachyphytum* are unknown.

The most interesting theory on why *Dudleya* are so different from the rest of the American *Crassulaceae* was presented by Charles Uhl of Cornell University. In his article in the *CSSA Journal*, he showed that the center of *Dudleya* is on the Pacific plate, while the center of the rest of *Crassulaceae* is on the North American plate. Millions of years ago, *Dudleya* came from the same ancestral *Crassulaceae* as *Echeveria*. The intervening period of separation as the Pacific plate moved away and back into the North American plate was long enough for the genetic changes and mutations to accumulate so that the two genera are no longer able to hybridize.

Dudleya grow naturally in Southern California and are ideally suited to casual culture. They can be planted in any garden soil, and as long as they are kept reasonably dry in the summer, will grow well. They are winter growers, coming out of dormancy in October or November, when the summer heat finally breaks. They pump up with the first rains, but do most of their growth in March and April. Flowering starts in February and runs through August, depending on the species and how it is grown. When the summer heat arrives, the plants go back into dormancy.

Most of the *Dudleya* are low growing, branching shrubs. Propagation of these species is easy. A cutting of a branch is simply taken, allowed to dry for a few days and then planted. Rooting is easy and quick. Best results are obtained either at the start of the growing season or in mid-spring, when active growth is again strong. The single headed species are a bit more risky to propagate. A stem cutting is again taken and rooted. Usually the stem still in the pot will send up at least one head. These can be separated and grown on or the multiheaded specimen can be grown.

Some of the species and particularly *Dudleya brittonii*, are very common, available even in discount chain stores. Many cultivars are available, and can be found in garden shops everywhere. Rarer species occasionally appear at many of the local plant sales.



Dudleya hassei



Dudleya brittonii



Dudleya rubens



GATES CACTUS & SUCCULENT SOCIETY
New Member / Renewal

Date: _____

Renewal Year: _____

Name: _____

Spouse, S/O: _____

Address: _____

City/State/Zip: _____

Phone: _____

Email: _____

Annual Dues:

\$20 Newsletter delivered by Email

\$35 Newsletter delivered by Mail

\$10 Name Badge

\$_____ Total Paid

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