



Mammillaria thornberi

Espinas y Flores

The Newsletter of the San Diego Cactus & Succulent Society
Affiliated with the Cactus and Succulent Society of America

Volume 49 Number 7

August 2014



General Meeting 9 August 2014 in Room 101 Casa del Prado in Balboa Park at 1pm

Guest Speaker is Ernesto Sandoval (above) speaking on Plant Hormones

Plant of the Month is Boophone by Ken Blackford

Pre-Meeting Workshop will be Back to Basics by Mark Fryer 11 to 12

New Member Orientation at 12:30 with Wendy Goldman

Coffee in the Garden 23 August at the Parr's home in La Mesa 10 to 2

Bring Snacks if your last name starts with N through Z or if you just want to.

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President's Message

Super special thanks to Doug Dawson for making the drive from Phoenix and presenting an exceptional program. It was a great mix of Mimicry Succulents in habitat and culture advice. If you missed it, we will hopefully have him back again in the near future.

Our next Speaker Ernesto Sandoval is making a bit of a trek for this coming meeting all the way from Sacramento. It will be an interesting talk that also addresses the cultural and grower side of our hobby. Please see the program notes.

We have been making plans for the upcoming events and look forward to the back half of 2014. We have the Huntington Succulent Plant Symposium on August 30th please let Chris know if you would like to participate and she can tell you how to go about it. We will be having the annual potluck picnic in Admiral Baker Park for our September meeting date.

I wanted to take this opportunity to thank Collette Parr for keeping our website updated so well, please check it out. She also helped with the aftermath of our show along with another stalwart, Paul Maker. I wanted to give him a nod for making all the award certificates replete with photos of the award plants on them! THANK YOU!

I will truly honestly have the script at the coming meeting for the volunteers that missed out. Please see me! My apologies for missing it last meeting, sometimes things don't go as planned!

Enjoy your summer and see you on August 9th!

Kelly G



Program: Plant Hormones, How they work and affect the growth of our plants

By Ernesto Sandoval

The program is not very visual in that there aren't a lot of pretty pictures but quite mentally eye-opening for most gardeners, even those with lots of experience, from the feedback I've received over these past two years (2013-14). It will help you understand why things happen when plants are pruned and propagated.

Ernesto Sandoval has been wondering and seeking questions to why plants look the way that they do for a long time. Now he explains and interprets the world of plants to a variety of ages and experiences from K-12 to professionals and Master Gardeners. He regularly lectures to Garden Clubs throughout the year and particularly to Succulent Clubs throughout the State and elsewhere since that group of plants is his particular passion within his general passion for plants. He describes himself as a Jose of all plants master of none. Ernesto thoroughly enjoys helping others, and gardeners in particular, to understand why 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 over the last 22 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 polyculture and biodiversity by growing several thousand types of plants at the UC Davis Botanical Conservatory, many of them succulents. 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 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.



Boophone ... and a few other South African Amaryllids

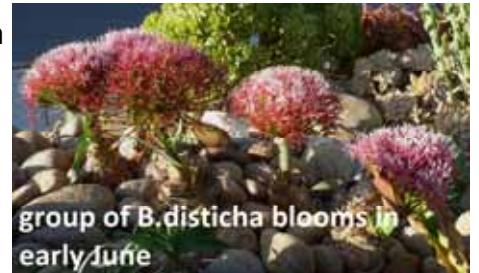
By Ken Blackford

The first question I am often posed with when talking about one of my favorite South African bulbs is ... "Bulbs are succulents?" So to get this out of the way ... **YES!** Geophytes (bulbs) all share a common element we associate with succulent plants ... and that is their ability to store food and water, which tides them over during periods of low or no H₂O availability. "But ..." you say "... they are underground ... and the leaves aren't succulent." Well ... so are many of the raised caudiciforms or pachycauls, of which many of us are fans. AND ... we had at least two Geophyte categories of entries in our June show. So, end of argument!

The *Boophone* (my pronunciation ... boo-off-phone-ay) genus currently has two species ... *B.disticha*, and *B.haemanthoides*. Some common names are Oxbane, Gifbol and Sore-eye flower (to which I can attest.) *B.disticha* ranges from Eastern to Western South Africa, North to the more tropical climates of Kenya and the Congo. *B.haemanthoides* is generally restricted to the Western Cape, not too distant from the coast. Provenance is important, especially if you plan to use in a garden setting.

Both species are often grown for their interesting, fan-shaped, usually deciduous display of leaves, as well as the flowers, AND their doubly interesting and decorative infructescence. They are generally very drought tolerant, but again, watering regimen should be based in whole or part on provenance of the bulb(s) you have. Ill-timed overwatering of those from the more temperate or Mediterranean climes WILL lead to rot and death. While I have found them tolerant of different soils ... good drainage is ALWAYS a requirement.

I obtained my first *Boophone disticha* from a UC Irvine bulb sale in the Spring of 1999. It was a leafless bulb extending about 8 inches above the soil line, like some caudiciforms, in a two-gallon container. I wasn't



particularly drawn to it, but one of the clerks performed quite an impassioned sales pitch. I brought it home and set on my sunny kitchen patio. The next day ... the beginning of a flower spear emerging from the top of the bulb drew my attention. I was immediately hooked and full of anticipation for the growing inflorescence. I read-up via available literature and online over old dial-up modem speeds of that era. The doc indicated they were self-sterile ... but I wanted seed from my plant. I knew of nobody with other *B.disticha*, but I had read that one might stimulate fertilization with pollen from another closely related Amaryllid. It just so happened, I

had a single, off-season naked lady (*Amaryllis belladonna*) blooming, which fit the bill. I brushed the heck out of the *Boophone* stigma with pollen from the naked lady anthers. The ovaries swelled with success! Apomictic? About half of them were ... the others turned out to be valid intergeneric crosses. But I digress ...

As it turned out, my purchased bulb was a Summer-grower from the Eastern Cape, and produced its fan of foliage after the late April bloom. Summer growers need H₂O during the Summer. More importantly, they need to be kept relatively dry in the Winter. That original plant died when I poorly placed it at the bottom of a slope, which was soggy through most of the cool winter months.

Oddly, there are also Winter-growing *B.disticha* ... same species(!) ... from the Winter-rainfall regions of the Western Cape, which go deciduous in the Summer. Again, provenance is important as their growing patterns will NOT adjust to opposing rainfall patterns. Winter growers are of course, more suited for gardening in our climate, but one can successfully grow the Summer-growers outdoors with particular attention to good drainage. Growing both will give you the fantastic foliage year round. I've interbred the two, which have resulted in plants that produce the same fan of foliage and are nearly ever-green ... and I believe more tolerant of bad watering regimens.





POM-Boophone (cont)

Speaking of foliage ... both species display a spectacular fan of 30-50 leaves (when mature.) Very dynamic and mix well, IMO, if carefully planted with other succulents. Some display an interesting waviness or twist to the individual leaves. Leaves of *B. haemanthoides* are wider (1-1.5 inches) than those of *B. disticha* (1/3-2/3 of an inch.) I have 3 dozen or so *B. disticha* worked into my street side succulent plantings, and the distichous leaf pattern often elicits comments from sidewalk passerby. If planting multiple bulbs, doing so with the fans in parallel planes will present a more pleasing display.

In addition to *Boophone*, there are several closely related Winter-growing Amaryllids which should do well in our climate and make good landscape specimens in a succulent garden. *Brunsvigia josephinae* and *litoralis*



produce interesting, upright glaucous-blue Winter foliage, followed by a Summer dormancy and spectacular umbels of flowers in late Summer or Fall. There are other *Brunsvigia* species with interesting prostrate foliage and similar blooms. Gethyllis and Hessea are also Winter growers, but smaller ... better for pot culture. Some *Gethyllis* species produce, fantastic, interesting foliage ... not unlike a sea anemone. Of course, perhaps the most common and recognizable South African Amaryllid in California Gardens is the previously mentioned Naked Lady, or *Amaryllis belladonna*. It's robust Winter foliage makes it a bit harder to work into a succulent setting, without suffocating the surrounding plants.

age makes it a bit harder to work into a succulent setting, without suffocating the surrounding plants.

I've been 'playing' with these bulbs since moving to San Diego 15 years ago ... mostly growing from seed purchased from a South African supplier, followed by my own seed produced in copious amounts the last several years. A common complaint is that from seed ... they are slow ... anywhere from 4 to 10 years to maturity. Well grown plants can be flowered in the low end of that range. Working into a succulent garden can be tricky, but if done well, can add some impressive variation and diversity to a collection of succulents which generally need the same low water requirements.



Upcoming Calendar of Events

August 9-10: 29th Annual Intercity Show & Sale at the LA County Arboretum, 0am-5pm daily. 301 N. Baldwin Ave, Arcadia CA. Info call Tom Glavich 626-798-2430 or John Matthews 661-714-1052

August 30: Huntington Botanical Gardens Succulent Symposium. All day at the Huntington

September 7: Long Beach Cactus Club Annual Plant Auction, 12 –5 pm. Rancho Los Alamitos, 6400 Bixby Hill Road, Long Beach Info 310-922-6090.

September 13: SDCSS Annual Picnic at Admiral Baker Field.

November 1-2: San Gabriel Cactus and Succulent Society Show and Sale. 9am-4pm both days. LA County Arboretum, 301 N. Baldwin Ave, Arcadia CA

December 13: SDCSS Holiday Party starts at 11 in room 101 Casa del Prado, Balboa Park

February 14, 2015: SDCSS Winter Show and Sale, room 101 Casa del Prado, Balboa Park



Meet a Member

The Brightest Light in Any Room-Bev

by: Denise Huntsman-Griffin

When I started to write this article, it was going to be about the dynamic and interesting couple of Bev Grant and Art Cooley. After learning more about them, I realized they had such full lives way before they met in 2003. So, I decided to write about Bev first and the next article will be about Art. And I wanted to tell you how they met on a glacier in Antarctica! They really did! Or, at least, near one. But that story will

have to wait until the next article. This is about the cheerful, energetic and beautiful Bev Grant who has lit up rooms everywhere with her bright face! Literally! And she got paid for it too! She was “discovered” in 1996 during the Republican Convention while working for a democrat and for the next 11 years worked as an international/national/and local model. And this was all after a 30 year teaching career!

Bev modeled for Lindblad Expeditions (Norway), BushTracks Expeditions (Africa), Canada and Chile. She did print ads for the companies Ocean Spray Cranberry Juice, Kellogg’s, Scripps, Sharp, Kaiser, Rockport, Actonel, Charles Schwab, Charbroil and AOL. She was on magazine covers, meeting an “over 50’s” demographic with her natural beauty and they never photo shopped her gray hair or wrinkles she says. Hospitals everywhere still use her photos in ads to treat shingles, diabetes, blood pressure and cholesterol. She says to look around the waiting room at your next doctor’s appointment and you will find her. You could also find her on billboards for osteoporosis, Del Webb Retirement Homes, hearing aids, heart health, cancer and urinary tract infections for Ocean Spray. Bev says, “I’m proud to say I’ve filled the geezer-hood niche for ‘prime age’ models.” She also did commercials for Indian gaming casinos, Spa Hotel and Casino, and a dentist. When trying out for a commercial for Swan Pools, she needed someone to join her on the trampoline, she brought Art and they both got the job! Television series work included, ‘Silk Stalkings’ (playing an assistant DA and a forensic specialist), ‘Pensacola, Wings of Gold’ (playing the colonel’s wife and ‘Invisible Man’ (an extra). Film work included being an extra in ‘The Marriage Claus.’

Before her career as a model/actor, Bev taught English, Speech and Theatre Arts at Poway High School for 2 years and then transferred to Torrey Pines High School in Del Mar where she taught English, Speech and Debate and coached Debate and Speech for 27 years. She was once chosen ‘Teacher of the Year’ by the Church of Jesus Christ of Latter Day Saints and in 2000, was also chosen ‘NFL Teacher of the Year’ by John Lynch (Tampa Bay Buccaneers). A commercial about her ran for 9 months and her classroom was featured with another actress playing her. While teaching she organized and led student trips to New York City, England, China and the USSR. Her main motivation in taking students on trips was to promote peace by showing them how much people are alike all over the world. She has many great stories about her teaching experience and fond memories and is still in contact with several students.

Bev is from Dearborn, Michigan and moved to New York City and first taught in a men’s business college. She decided to move to California in 1969 while watching the moon landing from her mother’s La Jolla home. She has a son named Jeff and two grandsons named Trevor and Aidan. In 2003, she met Art in Antarctica on a ship in which Art was a naturalist and she was a guest. They live in a lovely home in La Jolla with their Desert Tortoise “Porque” and became members of the San Diego Cactus and Succulent Society in 2004. They came to be members after visiting a garden shop in Los Olivos where they had bought some succulents. Bev went on line to learn how to care for the plants, saw our society’s newsletter, asked questions on the website; Jeff Harris responded and talked them in to coming to a meeting. Her volunteer activities have included writing articles for the newsletter, being a security guard and a box lady at the Show and Sales, introducing the speaker Tom Knapik, promoting the 2013 Show and Sale on KUSI news with Kelly and volunteering at the San Diego CSSA convention at registration. Regarding our meetings, she says, “The plants are great, but it’s the people and the presentations that keep bringing us back.”



BEV GRANT

Things you might not know about Bev: she was an avid “Over the Line” player, enjoyed snow and water skiing, skydiving, backpacking, traveling, golfing, swimming, roller blading, dancing and even took pilot lessons! Her favorite succulent genus is *Dudleya* and she loves anything with a caudex. Next time you are in a doctor’s office, grab one of the medical brochures, the one with Bev’s picture on it, and bring it to a meeting for an autograph from Bev Grant! The bright light that we are fortunate to have shine on our society!



SDCSS Annual Picnic



DIRECTIONS Located one-half mile east of Interstate 15 at the intersection of Friars Road and Santo Road, Admiral Baker RV Park can be reached either from Interstate 8 or Interstate 15.

From Interstate 8 - Exit Mission Gorge Road. Right on Mission Gorge Road to Friars Road and turn left. Continue on to Santo Road and turn right. Make an immediate right onto Admiral Baker Road and follow it down the hill. At the bottom of the hill turn right into the parking lot.

From Interstate 15 - Exit Friars Road East. Follow Friars Road to Santo Road. At Santo turn left. Make an immediate right onto Admiral Baker Road and follow it down the hill. At the bottom of the hill turn right into the parking lot.

Where: Admiral Baker Field Recreation Area, Site 6.
View using Google or at <http://www.militarycampgrounds.com>.

When: September 13, 2014.

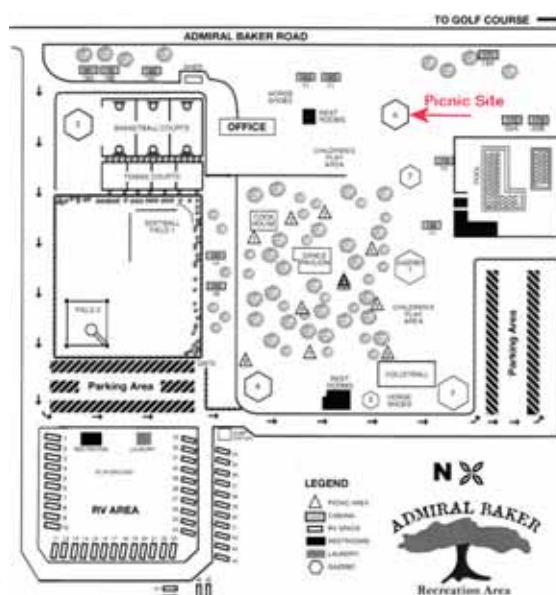
Time: Volunteers will start prep work at 9.
Lunch will be ready around 11:30

Cost: \$5 a person

Bring: Side dishes, deserts, finger food. The Club will provide tri tip, hot dogs, hamburgers, veggie burgers and drinks.

RSVP: Sign up at the August meeting. If you don't sign up, there you can sign up on the website. Last resort or late to take action send Chris Miller an E-mail at c.miller@cox.net or call her at 619-258-9810 to let her know if you are coming and what you are bringing. We need to have a general idea of numbers so we can buy enough meat, etc.

There are plenty of tables in the picnic area and lots of lawn around it for us to gather. The picnic is a great way to get to know each other better and catch up with old friends.



Coffee in the Garden at the Parr's Home

Terry and Collette Parr welcome you to their eclectic cactus and succulent gardens in La Mesa on **Saturday, August 23rd**, from **10 A – 2 P**. The gardens are a work in progress, and while not yet complete, many additions have been made in the past year, and many more planned. Too many wonderful plants and just not enough time...you know the story!

ADDRESS:
7924 Grape Street
La Mesa, CA 91941

If you get lost, please call:
Terry cell: 619-249-4986, or
Collette cell: 619-384-8849

We will have some refreshments and goodies to consume while you are strolling around and checking out our diverse collection.

Our gardens are accessible both at the street level, and down an incline and some stairs on one side of our house. However, the lower gardens are on uneven ground, and not accessible to anyone with walking issues, so please be cautioned.

We look forward to seeing you and chatting about our favorite plants!



Pre Meeting Workshop—Back to Basics

Some common issues with the basics of succulent care -

By Mark Fryer

Plants only need 4 basic things to survive- Water, Soil, Light, and Air; some are extremely particular and can't handle conditions much different from the habitats they've evolved in, others aren't quite so persnickety. Some of the common issues we face as growers of these plants are typically incorrect watering, too much or too little sun exposure (or the wrong sort of sun exposure), a lack or too much heat in our growing space, or the wildcard- pests and diseases. We'll take a look at how to diagnose which of these elements are out of alignment, and how to rectify them.

A few basics to contemplate- most potted plants will fail to thrive in fairly short order if any of the basics aren't meeting the plant's basic needs.

Water is a great example, but the end result is the plant dehydrates and dies whether it's over-watered or under-watered, so how do we figure this out? First, what's the base water quality like? Most tap water is treated, and tends to be very alkaline. Even greedy grasses won't thrive in alkaline conditions, so a little acidification is a great idea if you use most urban tap water. The easiest method of achieving this is by adding vinegar to the line with a siphonex (a small tube attached to the hose that uses the suction of an open hole to draw minute amounts of solution through your hose- IF you water through a hose).. another option for small collections is to simply hand-water and mix appx. 1Tbsp per gallon of tap water. If you're fortunate enough to do so, collecting rainwater for watering needs is another venue for better water quality. Secondly, know what you're doing when you water- have you given the weight-test to a number of plants in your collection to determine if they've really dried out? You'll notice in walking around and lifting the plants in pots, there's a dramatic difference in the weight of a dry plant compared to a wet plant. This is something you will learn by doing, and I highly recommend you pick up and examine your plants often! Another rule of thumb is many cacti don't really drink up much moisture when they're not actively growing, and most go into a growth phase *after* they've flowered. Two exceptions to this are Echinocereus and Echinopsis/Lobivia, which will both appreciate a light watering when they begin to produce buds. Most cacti can be thought of as frustrated tropicals, shunning water during their resting period, slowly waking up through their flowering phase, and then wanting lots and lots of heavy drenching during the growth phase. It is counter-intuitive, but the heavy waterings during the growth phase of one season leads to the successful flowering in the next, so don't skimp on the H₂O! Other succulents have various types of rhythms, but nearly all have that one time of year when they really need to be watered and fertilized (especially if you're using acidified water). A half-measure of whatever balanced fertilizer you want to use is usually more than sufficient, but be careful with feedings on some succulents, especially once they've attained a mature size. The frustrated-tropical nature of most succulent plants means they will often thrive as youngsters under one set of conditions, and resent a similar condition later in life. You know how it goes, we get older and we slow down a little.

Another issue is exposure (heat, sun, shade) - most plants resent being shifted too much from one angle to another- while there is some potential for the grower to use this to their advantage in creating even more sculpted-looking plants, having the proper exposure to sunlight and heat are key for good flowering (especially with cacti). If you're growing on a window sill, full on sunlight might be just fine (depending on the type of UV reflection your windows provide), but as a rule of thumb, eastern, morning light is an almost no-fail situation. Certainly any plant can burn if it's thrust into an open, full-on sunlight situation, but providing shade from noon on is generally a good idea. Many can be adapted to full-sun exposure (if you're planting in the landscape, for instance), and in these situations a temporary "blanket" of shade (use old screening, shade-cloth, or positioning tall shade-providers nearby), then gradually expose the plants to more and more light.

Know a little about where the plant lives in habitat, does it grow out in full sun or under the local grasses and trees or shrubs? What are its requirements for dormancy? Does it even go dormant? So many questions! I'll have my interns (aka kids) grab a few things to bring to the meeting and we'll take your questions, offer up our observations, and hopefully we'll all get along (ha ha)! Looking forward to seeing you all at the next meeting!

Notice: SDCSS is looking for a new Newsletter Editor. I have enjoyed doing the news letter the last few years and hope that you all have gained from it. I am looking to simplify my life due to a new grandchild and other constraints. Below is a job description for the position. The nuts and bolts of how to put the newsletter together can be available for those that are interested. We are looking for someone to take over in January or earlier. The job offers a small monthly stipend and paper and ink for the printer are covered by the club. If you are interested please send a resume plus a sample of how you would like the newsletter to look to myself or Kelly Griffin. If you have questions contact either of us.

Chris Miller

Job Description for Newsletter Editor

Produce the monthly newsletter

Gather articles from various contributors

Take photos at meeting of Brag Table plants, award ceremonies and other interesting things (can arrange for someone else to take photos)

Put together the newsletter. Includes formatting and editing, including some photos. (currently developed in MS Publisher)

Print paper copies for mailed newsletters and deliver them to the O'Daniels for distribution

Print coversheet for paper newsletters using MS Excel and MS Word

Create pdf files for electronic distribution, send them to the web master to post

Create e-mail to send out to the members with e-mail addresses

Put out notices by e-mail

Create document to e-mail to the membership list (currently done in MS Word, Excel and Outlook)

Publicity Printing

Print club fliers, business cards, and sale fliers

Time requirements include

Attending the monthly Board Meeting the Wednesday after the regular meeting. This requirement is necessary since the Newsletter Editor needs to have a finger on the pulse of the organization.

Meeting the timeline for distribution of both paper and electronic copies of newsletter

Newsletter takes 8 to 15 hours to put together depending on input from contributors

Current printer takes about 3 hours to print paper version and cover sheets

The current drop off location for distribution is the O'Daniels in Poway. They finish putting it together, fold and secure it, put on postage and take to post office

Other Requirements

Must have email account, know how to use it.

Good working knowledge/familiarity with of all MS Office products.

Good to have and know how to use, Adobe Acrobat (not just Reader).



Gene J. Walkowiak

Walkowiak, Gene J. 01/05/1936 ~ 07/15/2014 SAN DIEGO -- Captain G.J. Walkowiak, USN Dental Corps, passed away peacefully with his family at his side, Tuesday, July 15, 2014. He is survived by his wife Judith, his seven children and spouses, grandchildren and great-grandchild. Funeral services were held Tuesday, July 22, at Saint Gregory the Great Catholic Church in Scripps Ranch. Interment was at Miramar National Cemetery. Gene and his wife Judy have been members of SDCSS for many years. You may remember him at the front table greeting people as they came in the door.

July 2014 Brag Table Winners

Judged by Doug Dawson

CACTUS

Novice

- 1st Place, Denise Griffin – *Astrophytum ornatum*
- 2nd Place, Sue Thomas – *Gymnocalyx subterraneus zaragoza*
- 3rd Place, Denise Griffin – *Echinocactus texensis*



Astrophytum ornatum



Gymnocalyx

Intermediate

- 1st Place, Candy & Jerry Garner – *Copiapoa hypogaea v. barquitensis*
- 2nd Place, Bev Grant – *Notocactus* sp
- 3rd Place, Bev Grant – *Gymnocalyx* sp.



Echinocactus texensis



Notocactus

Advanced

- 1st Place, Peter Walkowiak – *Copiapoa esmeraldana*
- 2nd Place, Peter Walkowiak – *Copiapoa krainziana*
- 3rd Place, Peter Walkowiak – *Copiapoa cinerea*



Copiapoa esmeraldana



Copiapoa cinerea



Gymnocalyx subterraneus zaragoza



Aloe "Tropic World"

SUCCULENTS

Novice

- 1st Place, Wayne Dameron – *Stapelia gigantea*
- 2nd Place, Sue Thomas – *Aloe 'Tropic World'*
- 3rd Place, Ken Blackford – *Aloe pearsonii*



Stapelia gigantea

Intermediate

- 1st Place, Candy & Jerry Garner – *Aloe parvula*
- 2nd Place, Bev Grant – *Operculicarya*
- 3rd Place, Don Hunt – *Tylecodon cacalioides*



Operculicarya

Advanced

- 1st Place, Kelly Griffin – *Aloe castillonae sp. Madagascar*
- 2nd Place, Phyllis Flechsig – *Lithops optica*
- 3rd Place, Peter Walkowiak – *Adenium swazicum*

Submitted by Candy Garner



Lithops optica



Aloe pearsonii

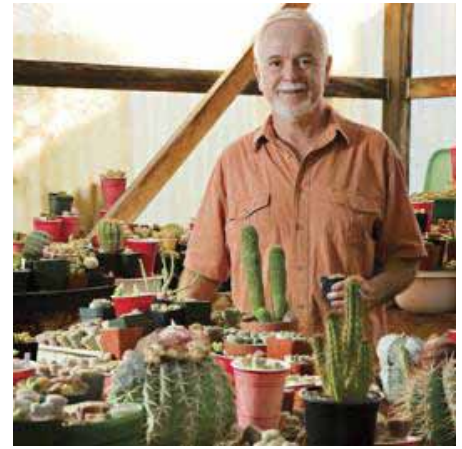


Adenium swazicum

Seed Growing with Red Cups:

Here is the information Doug promised at the end of talk last month

1. Put 7 or 8 holes in the bottom of red plastic cup (a sturdy leather needle will do it).
2. Pour in about 1" depth of sand.
3. Next, partly fill with your normal slightly moist soil mix. (Often I use 2 parts of gravel-sand, 1 part desert dirt (not clay!), 2 parts pumice, and sometimes ¼ part of fine mulch or leaf mould. Be careful, most cacti and succulents do not like much organic material.) Leave about ¾" of room at top surface. Carefully wash down the interior upper sides with a spray bottle so that no dust is present.
4. Fill top with about ½" of sterilized finer soil mix. (I usually wet the sterile mix a bit BEFORE I add it since it may not wet well in the water bath (see #7 below). I sterilize soil in a toaster oven.
5. Distribute the seeds - methods vary slightly depending on size, shape, and type.
6. Sometimes scatter a dusting of sterile fine sand on surface.
7. Set the cup in a water bath about 2" to 3" deep. Leave in the bath for at least an hour. You may wish to leave it there overnight for some seeds.
8. Place 2-liter plastic soda-bottle top dome on and screw on the cap.
9. Place in appropriate filtered light and temperature and wait...
10. Rehydration: if after an appropriate amount of time, none come up, mist the surface, being careful not to dislodge the seeds.



Caution: Your red cup with 2-liter bottle top is a closed system. Therefore, **no** direct sunlight – Don't cook them. After a few weeks, eliminate the screw-on cap. Sprinkle some fine gravel, mist, and place clear dome back on without the cap. In a few months remove the dome completely. Keep seedlings moist, not soggy.

© by Doug Dawson

There is a great article about Doug in Phoenix Home & Garden Magazine

Section: For The Garden

Title: Living Stones

Author: Cathy Cromell

Issue: November, 2012, Page 73

Next CSSA Journal by Tim Harvey

A picture of the inflorescence of an unidentified *Ledebouria* sp. on the cover accompanies Cody Howard's article describing some of his work on the genus in Namibia. This work was partially funded by a grant from the CSSA. Those of you who have ever won a plant at a CSSA auction, or donated to the Research Fund; this is what you generously enable. Gideon F. Smith and Estrela Figueredo take us on a tour of the succulent gardens at the University of Porto in Portugal, which features a good collection of Agavaceae. Two famous botanists, Cyrus Pringle and Joseph Rose, combined to bring the world the delicate *Polianthes pringlei* in the article by Miguel Chazaro and co-workers. Dylan Burge's article on the California Floristic Province at Colinet Mesa contains striking details of the damage being done to the area, despite its rugged beauty. Peter Breslin clarifies the identity of plants mentioned in his previous article on *Corynopuntia*. Mike Wisnev tackles phylogenetic systematics, a subject, along with the acronym DNA, that can deter many people from reading an article. Mike's approach is to explain, in very general terms, using simple examples, just what the technique can and cannot do currently. Everyone is encouraged to read this at least once! Superb Succulents closes the issue, with Duke Benadom *Whitesloanea crassa* and an *Ariocarpus* hybrid.



31st Succulent Plants Symposium 30 August 2014 Huntington Botanical Gardens

Program Includes:

Ivòn Mercedes Ramirez Morillo, Centro de Investigación Científica de Yucatán, A.C. Mérida, Yucatán, México, *An Overview of Hechtia (Bromeliaceae)*

Nigist Asfaw, Addis Ababa University, Addis Ababa Ethiopia, *Medicinal and Aromatic Plants of the Dry Lands of Ethiopia*

Nathan LeClear, University of Texas, Austin Texas, *Jatropha on My Mind*

Jeffery Morawetz, Rancho Santa Ana Botanic Garden, Claremont California, *Euphorbia Hunting in the Old World: From the Arabian Desert to the Deserts and Savannas of Africa*

Germán Carnevali Fernandez-Concha, Centro de Investigación Científica de Yucatán, A.C. Mérida, Yucatán, México, *Succulents and Xerophytic Communities in the Yucatan Peninsula*

Sebesbe Demissew, Addis Ababa University, Addis Ababa Ethiopia, *Adaptation of Succulents and Geophytes From Semi-desert to Afroalpine Habitats in the Horn of Africa* (presentation follow dinner)

Time:

8:30 Registration & continental breakfast

9 to 5 Program in the Ahmanson Classroom

Includes Silent Auction, Desert Garden & Desert Conservatory special hours and Lunch

6:00 Dinner (Optional)

Registrants who have not signed up for dinner are welcome to return for the final presentation

Registration:

Symposium \$75

Dinner \$25

Deadline for registration is August 26th. We cannot guarantee meals for late registrants. Send registration form and a check (payable to the Huntington) or credit card information to

**Succulent Plant Symposium
Huntington Botanical Gardens
1151 Oxford Road
San Marino CA 91108**

(626) 405-3504
(626) 405-3501 (fax)

The Huntington is delighted to accept donations of items for the Silent Auction. Proceeds help to offset the symposium costs

Name(s) _____

Affiliation _____

Address _____

Phone _____

E-mail _____

Program _____ x \$75 = _____

Donation _____

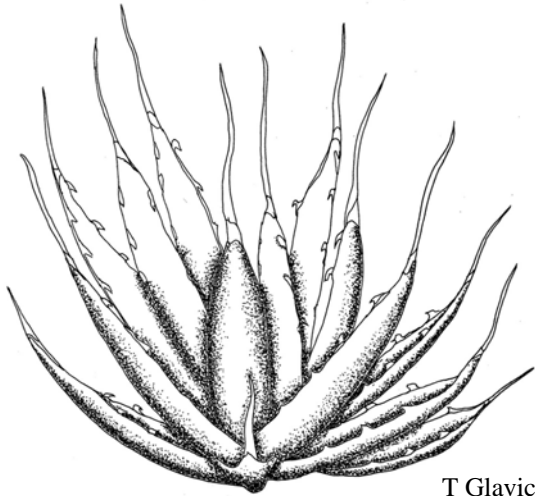
Dinner _____ x \$25= _____

Total enclosed _____

Credit Card # _____

Exp. Date _____

Signature _____



T Glavich

Agave utahensis var *eborispina*

29th Inter-City Cactus & Succulent Show & Sale

Los Angeles County Arboretum
301 N Baldwin Ave, Arcadia 626-821-3222

Out Annual Plea for Entrants

This 29th Annual Inter-City Cactus and Succulent Show is less than a month away. This is one of the stellar events in the Cactus and Succulent World, with a worldwide reputation for the quality and quantity of entries. The Inter-City Show pioneered the concept of Walks and Talks adding an important educational component to the show.

The Inter-City Show has a well-deserved reputation for the place to see one of a kind plants, but more importantly, it has the reputation as the place where plants are grown to standards of excellence that are impossible to exceed.

With this in mind, the Inter-City Show is also one of the easiest and most encouraging to enter. There are three classes, Novice, Advance and Open. Novice is anyone who has won less than 40 first places in recognized shows, Advanced in anyone who has won more than 40, and Open is for anyone who wants to compete at the highest level. This show is one of the main sources of new members for all three clubs. A little know secret is that it is the novice entrants that do the most to encourage new members to join the clubs and to enter future shows. We need more novice entrants.

Entries can be brought in from 1 to 7 on Wednesday August 6, 8 AM to 9 PM on Thursday August 7 and 8 AM to 5 PM on Friday August 8. Judging starts at 5 on August 8th and everything needs to be on the tables by then. There are always plenty of people to help with any identification problems, so don't let a lost label keep you from entering a plant. Advice and help on last minute grooming is always available, and there are plenty of people to help make sure your plants are placed in the right categories. We do everything we can to make this the easiest and friendliest show to enter.

The sale is one of the highlights of the Show. It will be open from 1 PM on Friday. We have dealers from Northern California, San Diego, Tucson, Phoenix, New Mexico and local specialists. There will be an amazing amount of wonderful plants for sale as well as on the show tables. We have already heard from people coming from Georgia, Florida, Korea and elsewhere to see the show. Please help make this an event that they will always remember. We have lots of tables to fill. We would like you to attend and bring your friends, and we need you to bring your plants.

Thanks in advance

The Inter-City Show Committee

SDC&SS MEMBERSHIP APPLICATION / RENEWAL FORM

Dues are \$15.00 per year per individual, and \$5.00 per year for each additional household member. Newsletter is E-mailed. **Mailed paper copies are available for an additional \$10 a year. Each member has all the rights and benefits of the organization.**

Annual Dues (E-mail Newsletter) \$15.00 _____
 (Paper Newsletter) _____
 First class delivery USPS \$10.00 _____
 Annual Dues – International (Paper) \$30.00 _____
 Additional Household Member(s) \$5.00 _____
 Amount Enclosed \$ _____

Check **ONE** for type of membership:
NEW _____ **RENEWAL** _____

Member Information:
(Please PRINT to fill in ALL blanks below!!!)

Name: _____

Address: _____

City and State: _____

Zip + 4: _____

Phone Number: _____

Cell/FAX: _____

E-mail Address _____

Additional Household Members: _____

Do you wish to receive E-mail notifications of Club events and issues?
 Yes _____ No _____

Mail this form or a copy, along with a check or money order payable in US Funds to SDCSS to:

**SDCSS Membership Dept
 c/o Paul Maker
 1245 San Pablo Drive
 San Marcos CA 92078-4816**

(Rev. E-2, 2012-11-13)

Please address correspondence to:
 The San Diego Cactus & Succulent Society
 P.O. Box 33181 San Diego, Ca 92136-3181

San Diego Cactus & Succulent Society

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 Grants: **Jerry Garner**

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Lithops dorthea