

Volume 41 Number 10

November 2006

ESPINAS Y FLORES

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



Program: TEQUILA COLLEGE

CACTUS OF THE MONTH: ARIOCARPUS

*SUCCULENT OF THE MONTH: SUCCULENTS OF THE
CANARY ISLANDS*

Saturday November 11, 2006 at 1:00 pm
Room 101 Casa Del Prado
Balboa Park, San Diego CA

On the cover:

We have a most exciting program for November. This will be for all of those who want to know everything about Tequila: from the growing of the blue Agave, it's harvest, and the final product that has become one of Americas most popular alcohol beverages. Our guest is Mr. Phillip Soto Mares, the only certified 'catador', or taster, of Tequila in the United States. Mr. Mares resides in San Marcos and will soon be opening La Academia Mexicana del Tequila in 2007 in San Marcos. This institute will educate people about the basics of tequila, from its history, through the distillation process, to tasting the final product.



Mr. Mares currently distills 'El Duende de Don Felipe' tequila in Arandas, Jalisco, Mexico of which he will began distribution in the United States next year.

This will be an actual hands-on demonstration. Mr. Mares will bring in the Agave and discuss cultivation and demonstrate its harvest and processing.

Now for the bonus!! We will actually have a tequila tasting! You don't want to miss this fun meeting.

Cactus of the month will feature the extremely slow growing genus: *Ariocarpus* by Juergen Menzel.

Succulent of the month will be a presentation of the 'Succulents of the Canary Islands' by Pam Badger.

Regards, Joe Kraatz



Photo: *Ariocarpus scaparostrus angular* by Juergen Menzel

PRESIDENT'S MESSAGE

Greetings!

Is it just me or was our last meeting a little "warmer" than usual? Yes, I think the topic of climate change and global warming can certainly raise some interesting points of view, and hope it got everyone thinking and paying attention. For the past several years, and from my perspective, it seems certain rhythms in the greenhouse, the xeriscape, and in habitat, things are changing at a more noticeable rate than years prior. Perhaps I'm just learning to pay closer attention, or perhaps there are larger things at work. Last months meeting really got me thinking, and I really appreciate everyone's participation. We are so fortunate to have such top-notch professional speakers in our midst with Art Cooley and Kym Hunter, they really did a great job.

My hat is also off to Elibet for judging the brag plants with such candor and insight, she is closer to being a CSSA certified show judge than she might realize! Rudy Lime, Allen Clark, and everyone who contributed to the daily regalement, THANK YOU, you do so much by hosting the snacks and coffee so reliably!

I love cake, but I hate to say goodbye, so here's to Jeff Harris's long-term, non-stop, dedicated where-with-all, and all around nice- guy-ism. Jeff, I hope you're reading this in Kamloops, BC, and freezing your toes off! We'll all miss you and your work immensely!

November's meeting is looking to be a fascinating journey through three distinct favorites of mine: Pam talking about the succulent plants of the Canary Islands, Juergen tackling Ariocarpus, and Phillip Mares talking about farming Agave and crafting Tequila, wow! I think this will be a meeting not to be missed, for sure!

The month of November is also when we typically hold our elections for executive and regular board members; we have only executive openings this year, and so far all positions currently held are agreeable to the incumbents fulfilling their consecutive terms. This just means that everyone on the executive board will stand as per the previous two years unless there is objection or interest in replacing anyone. Please contact any board member if you desire a position, or have any objection to the current slate.

Volunteers are always needed! We still need someone to step forward and become our CSSA affiliate representative, and we are need of additional hands for the library committee and publicity help. The board is hoping to deliver a number of new improvements to our awesome and fantastic membership for 2007, and we need as many hands as possible to help bring some of these goals to fruition. So if you're reading this and thinking to yourself that you could offer an hour or two per month, please grab a board member and let us know what we can do!

The Wild Animal Park folks are still meeting up on Saturday mornings for a fun-filled morning of weeding, watering, and planting. If the distance is an issue, we are still hoping to see some SDCSS members at the Point Loma Native Plant Reserve as an ongoing commitment!

Hmmm... I guess maybe the climate is changing within the SDCSS; it's as if everyone's pitching in and it's paying off!

Don't stop! Keep Growing!!!

Mark Fryer
October 2006



Photo: *Aeonium urbicum* by
Pam Badger.

Coming Full Circle

by Bev Grant

Our “addiction,” Art’s and mine, that is, began on a car trip up the coast to San Francisco. It was a “SIDEWAYS” type of trip. Santa Inez Mountains, Solvang, Merlot, Big Sur, Pinot Noir, Santa Barbara, more wine, and Los Olivos. Los Olivos is where the actual addiction began, not to grapes and vino, surprisingly perhaps, but to succulents...and unimaginably to Jeff Harris.

There is a lovely garden shop in Los Olivos, J. Woeste, that stacked gorgeous plant upon plant in artistic groupings. But these plants were DIFFERENT...exotic looking; specimens I’d never seen before with startling shapes, flowers, names, environments. Plants exotic to a neophyte: *Echiverias*, *Gasterias*, *Aeoniums*...as it turned out, they were the common ones; I bought two of each, in case I managed to “kill” one. Certainly, they couldn’t be replaced in San Diego. We worried about them being parked in the Westin Hotel Garage in San Francisco. Would my “babies” survive in the dark, with no water? Neophyte? No kidding! But they all made it back alive to San Diego. But, we were still concerned about their care, where to plant, how to water; the questions were endless. So, where does one go for answers... to the web. And who received the email? Jeff Harris, knowledgeable, enthusiastic, and NOT condescending about the blatantly obvious lack of knowledge on our part about these “use to abuse” beauties! After several emails with suggestions: buy soil at A-1 (incl. Jeff’s formula re: pumice, bone meal, dirt/NO PEAT), gravel/granite topping 3/8’s inches from Helix Wholesale, Carl’s funky shop formerly on University, an offer to visit his yard for additional species that were in abundance that were FREE to a good home. His goodwill was a blessing...for us and, more importantly, for our plants.

We took Jeff up on his offer of adding to our collection, if he’d allow us to take him to dinner. Although Jeff is an “ecto-morph,” he loves to eat, and accepted our offer to go to dinner at Ichiban (which Jeff prefers to call “Itchy Butt,” oh, dear). At dinner, the invitation came to attend an SDCSS meeting in Balboa Park, second Saturday of the month. What did we have to lose? Nothing, since we were “hooked” and needed even more of these exotic beauties; noting the difference from need and want didn’t deter us! We jumped at the chance and extolled our “good fortune” to have met Jeff on the Internet. A friendship was developing.

Now, however, my opinion of Jeff has changed! Instead of the informative “nice guy,” he’d become the heavy-duty “pusher.” Always ready to talk us into “trying something more exotic/rare”...the “high” won’t cost much...”just come to my house for a great deal,” etc. Plenty of et ceteras! So, the addiction to succulents and the occasional cactus has grown, but our collection is still small/minor (approximately 350 plants) compared to some members. For three years of addiction, that’s a lot of “track marks,” so to speak, not to mention the cost. What kind of friend is that?! Jeff has cost us!!

Then, Jeff manages to introduce us to other “pushers,” members of the club regularly tempting us with plants we couldn’t live without. Thanks for selling such lovely, healthy specimens...and for even more knowledge regarding care, species, availability, recipes for soil (secret compounds as varied as chocolate chip cookie recipes). And even, in some cases, giving us plants (thanks, Terry, for the lovely *Huernia kennedyana* at the last meeting). A gift...for no reason! And to Don Hunt for handing us the 1st lottery ticket number called, so we could “win” his coveted “pot.” Imagine. Again, it’s all Jeff’s fault...not only did we become addicted to the plants, but to the kind, generous folks of SDCSS.

SDCSS’s eclectic group offers diverse backgrounds and talents, but all possess a common interest... it’s a good group...a community! And, after three years we love that community: Lee’s stories of travels and adventures in Costa Rica; Pam’s stellar term as SDCSS president; Terry and Colette’s offers of conversation, encouragement, plants, information; Joe’s devotion to running a smooth and organized monthly sale; Chris’s WAP admonishments for “Help!”; Don Hunt’s artistic and enthusiastic “pot” kiln adventures; Mark’s unsuccessful but excellent advice re: *E. bupleurifolia* (I killed one of his best...and he’s still in mourning); beating Peter, and even Rudy, once at the brag table (‘staging’ was the key, not the beauty or the rarity of the plant; I still feel guilty)...and we thoroughly appreciate all the others who have been kind, accepting and tolerant of dumb questions from novices. Oh, and did we mention Jeff Harris’ ability to never give up on us as ‘potential’ members who will eventually be “worthwhile” and maybe ‘give back’ to the group. Hope we’re managing to “compensate,” in small ways, for your kindness. Again, thanks for including us in this special community.

At the last meeting, we received our name badges and feel that we’re part of an extraordinary group with extraordinary members. Yes, we’re still the ‘new kids (at 61 and 72...kids??) on the block’ regarding knowledge about succulents and cacti. But we’re learning and we’re grateful. Very grateful. Our thanks to all of you, and, especially to Canada-bound Jeff Harris. It was appropriate that, true to form, just before he left for new adventures/vistas, we bought another exotic plant from him, a *Boophane disticha*, took him to dinner at a Cuban restaurant, Taza Blanca...and the next day emailed him for more of his expertise on where to plant, how often to water and...etc. Some things never change.

We ended where we started, coming full-circle, with Jeff... digging in the dirt, laughing, eating. But, because of him, we have so much to enjoy, to pursue...to keep our “habit” healthy and strong. Thanks again to all of you, and especially to Jeff, for being so welcoming, for encouraging us, for being who you are...NICE people.

CACTUS OF THE MONTH: ARIOCARPUS

Photos by Juergen Menzel

Ariocarpus confusus



Ariocarpus kotsch elephantides



Ariocarpus retusus pectinatus



Ariocarpus lloydii



Ariocarpus furfuraceus crest



Ariocarpus trigonus



For more information Juergen recommends these websites:

<http://www.living-rocks.com>

<http://www.viridis.net/cactus/mexico/img2023-25-26.html>

<http://www.desert-tropicals.com/Plants/Cactaceae/Ariocarpus.html>

<http://www.cactiguide.com/Ariocarpus.htm>

http://www.sdcss.com/art_ario1/ariocarpus.html

THE CANARY ISLANDS IN MY YARD

By Pam Badger

Ruined volcanic mountain,
Thirsty, naked, and barren,
A silent desolate island,
Of suffering loneliness.

This is how the Island of Fuerteventura in the cluster of islands called the Canaries, was described by the Spanish poet Miguel de Unamuno when he was exiled there in 1924. He was obviously not a lover of succulent plants or he would have found this place much more intriguing.

The Canary Islands lie in the Atlantic Ocean, one hundred kilometers west of the Moroccan coast. They consist of seven larger islands: Tenerife, Fuerteventura, Gran Canaria, Lanzarote, La Palma, La Gomera and Hierro, and four smaller ones: La Graciosa, Alegreza, Lobos and Montaña Clara.

The formation of this archipelago can be attributed to the movements of the African and European plates which, in the middle of the Cretaceous period (about 100 million years ago), caused the raising of the Alps. The rocks connected with these events and therefore representing the most ancient part of the archipelago have been found in Fuerteventura.

The particular geographic position of these islands enabled the conservation of many kinds of tropical and subtropical vegetation which in the past could also be found in the Mediterranean basin but has disappeared as a consequence of climate change in the region.

The following stages of the formation of the islands resulted from the great volcanic eruptions which took place between the Miocene (19 million years ago) and the Pleistocene (0.5 million years ago) periods. The nearest islands to the African coast have proved to be the most ancient, moving away from the coast and towards the open ocean, the islands become younger and younger.

At present, the flora of the islands consists of about two thousand species, five hundred and twenty of which are to be considered endemic, and as many as five hundred and ninety three that are rare or becoming extinct. Many of these species are geneses or sub-geneses that are impossible to find outside the Canary Islands. Such great variety might in future be an important genetic resource for new plants of agricultural, horticultural or medical interest, provided the environment is protected from the often thoughtless action of man. Not all of these plants are succulents, but many plants that we commonly grow and love are from the Canary Islands, primarily the arid coastal regions and the rocky habitat of the foothills. As I researched this article I found quite a few of them growing in my yard so decided to focus on a few of those.

Arid Regions

This ecosystem has developed almost evenly between the coast and the first slopes of the low mountains in the islands, up to a height of 700 meters and is characterized by a hot and arid sub-desert climate with rainfalls fluctuating between 150 and 250 millimeters per year and by an annual average temperature almost always beyond 20° C. The vegetation can be compared with that of the arid areas of Sudan, Ethiopia, Arabia and Iran and is typical of the steppe in the African continent. In this area we can find open formations of succulent shrubs, divided into several communities all dominated by different species belonging to the genus Euphorbia.



The most common of these is *E. canariensis* which has been a favorite of mine for a long time. This is the plant which best characterizes the arid and humid environment of the lowest areas in the Canary Islands. It is a small tree, up to 3-4 meters high. The green trunk is quadrangular or pentagonal. The leaves have turned into spines of up to 5-14 millimeters long, arranged in clusters of three or four. The flowers are reddish-green. It is an endemic species of the Canaries and grows very well here in San

Diego - at least in our landscape where it has gotten quite large and requires thinning - no easy task!

Another well known plant from this area is the *Dracaena draco* or 'Dragon Tree.' It is an endemic plant of the islands of Macaronesia. There are many legends concerning the drake of the Canary Islands: in medieval books is written that the blood-red lymph - "sangre de dragon" - coming out from the trunk when the bark is cut had both healing (for ulcer and dysentery) and magic properties. Many speculations have been made concerning what age the dracaena could reach: Mr. Alexander von Humbolt, one of the first men to explore the Canary Islands, reports that a plant in the Orotava valley that was destroyed by a hurricane in 1867 was over 6,000 years old and had a circumference of 27 meters. This is another plant seen all over San Diego - very large ones can be seen all over the county. We had this specimen for many years in a half barrel in San Francisco where it did just fine near the coast.



Senecio kleinia is a shrub with succulent trunk of up to a meter high. Its branches are articulated, that means that they have constrictions making them look like a row of small sausages. The leaves are arranged in clusters at the end of the branches: they are caducous, juicy, more or less lanceolate and up to 12 centimeters long. The flowers are arranged in whitish flower-head, but it is very difficult to be able to see this plant in

bloom. It is an endemic plant of the archipelago.

Rocky Habitat

The very irregular topography of the rocky foothills in the Canary Islands favors the development of a plants living on rocks or in their slits. These plants are characterized by a large number of endemic plants, sometimes observable in extremely restricted areas. The typical species associated with these areas belong to the genera *Aeonium*, who in turn belong to the family of Crassulaceae. Their appearance is that of small shrubs or perennial herbs often with succulent leaves held in basal rosettes. Such rosettes take root on the perpendicular rocky areas and persist all the year.

Aeonium lindleyi is of particular interest to lovers of Euphorbias as the juice from it's leaves is widely reported to be an antidote to the poisonous nature of the euphorbia sap.



In researching this article I discovered the name of the most spectacular *Aeonium* I have seen bloom. *Aeonium undulatum* has a thick stem and grows to just over a meter before making it's beautiful, pyramidal inflorescence.

In closing I would say that due to the natural history of these islands they have developed an impressive array of endemic plants (many more than touched on here) and I would love to go there sometime and explore them.

Bibliography

Euphorbia Journal vol. 1 & 10
Lexicon of Succulent Plants, Jacobson
canaryislandflora.com

The Library corner

By Jan and Phil Kent

Hello to all our fine feathered friends. This is Janice Kent and I'm Phillip Kent and we would like to wish you all a bright and shiny San Diego morning. Last month's contest was a lot of fun, wasn't it Hon! Oh it was delightful, and we would like to say congratulations to all the winners and kudos to each and every brave contestant. We'll do another one soon and we'll have another really super terrific prize.

Now regarding Over Due Library Books: A few of our fine members brought theirs back in, but a lot of our fine members still need to make the necessary effort to get their Over Due Library Books back in. Because, The Scarlet List will soon be coming and we have also decided that any member with Over Due Library Book(s) will Not be allowed to borrow any more books until their slate is cleared up. Yes Dear, that's right, as it should be. So as we say in tennis, "The ball is in your court." So get on the ball!

We would like to say "Thank You" and "Good Job" to Mr. Allen Clark who did such a fine review of the two-volume work, "Stapeliads of Southern Africa and Madagascar," by Author Peter V. Bruyns. This two-volume set is a new addition to our San Diego Cactus and Succulent Society Library. Dear, let's tell our dear friends of the other new books that have been acquired for the Library. Yes Darling, I agree, this would be an ideal time. So everyone, sit back, relax, and enjoy. (Curtain please.) (Sound of curtain going up.) (And applause, applause.) In no particular order, may we present:

1. Grass Aloes in the South African Veld by Charles Craib.
2. Lithops—Flowering Stones by Desmond T. Cole and Naureen A. Cole.
3. Knowing, understanding, growing Turbinicarpus – Rapicactus by Davide Donati and Carl Zanovello.
4. Echeveria Cultivars by Lorraine Schulz and Attila Kapitany.
5. Colour-Illustrated Experiences of Two Expeditions for Succulents in Central, South and Southwestern Madagascar by Harry Mays and Jean-Andre Audissou.
6. Fossil Treasures of the Anza-Borrego Desert by George T. Jefferson and Lowell Lindsay.
7. Echinocereus by Wolfgang Blum, Michael Lange, Werner Rischer and Jurgen Rutow.
8. The Encyclopedia of Psychoactive Plants by Christian Ratsch.

9. The New Cactus Lexicon, Text and Atlas, by The International Cactaceae Systematics Group.
10. Teratopia – The World of Cristate and Variegated Succulents by Gordon Rowley.
11. The Splendid Sansevieria by B. Juan Chahinian.
12. Madagascar – A Paradise At Risk by Marc Teissier, Thierry Botta and Christophe Blanchy.
13. Regions of Floristic Endemism in Southern Africa by Abraham E. van Wyk and Gideon F. Smith.
14. San Pedro and Related Trichocereus Species by Keeper of the Trout & Friends.
15. Cacti, Other Succulents and Unusual Xerophytes of Southern Arizona by Matthew Brian Johnson.
16. Yuccas: Giants Among The Lilies by Colin Smith.
17. List Of Names Of Succulent Plants (Other Than Cacti) by Urs Eggli and Nigel Taylor.
18. Threatened Cacti of Mexico by Edward F. Anderson, Salvador Arias Montes, and Nigel P. Taylor.
19. Succulents Propagation by Attila Kapitany and Rudolf Schulz.
20. Succulents for Mediterranean Climate Gardens by Diana Morgan.
21. Coryphantha – Cacti of Mexico and Southern USA by Reto F. Dicht and Adrian D. Luthy.
22. Stapeliads of Southern Africa and Madagascar, Volumes I and II by Peter V. Bruyns.

Well, there you have it folks! Right about now I feel like having a nice hot cup of cocoa and curling up with a good book. Sounds nice Darling, but not tonight, remember the cocktail party for the American Butterfly Watchers Society. Oh Yes, at the Hotel Del, right, or was it The Lakeside Country Club?

Any who, we'll tell everyone about our lovely Garden Club friends and the new Books to entice them to join and just have a delightful time dancing, and eating, and making new friends, and . . .

So until nest time, these are your lovely Librarians wishing you happiness and success in everything good that you try to do.

F.Y.I.

(For Your Information)

BOXES NEEDED: Our meetings will be in need of boxes for the sales area. These can be any where from 8" X 12" up to 2' x 2'. For ease of transport the boxes can be broken down. We have the necessary tape to reassemble. Shoe boxes and beer flats are also excellent. Also, our sales people are running out of handled paper bags. Any members who might have these please bring to the meetings. We have storage so number is no problem. Please see Joe Kraatz

CSSA REPRESENTATIVE: Kelly Griffin has moved on and the position of CSSA Affiliate Representative is open. Please see Mark Fryer if interested.

SNACKS : Last names A through M - please bring snacks for the November meeting.

OCTOBER BRAG TABLE WINNERS

CACTUS:

1 st :	<i>Ferocactus latispinus</i>	Jerry & Candy Gardner
2 nd :	<i>Ariocarpus kotschoubeyanus</i> crest	Peter Walkowiak
2 nd :	<i>Coryphantha elephantidens</i>	Peter Walkowiak
3 rd :	<i>Echinocactus grusonii</i> crest	Deya Wilson
3 rd :	<i>Coryphantha cornifera</i>	Andrew Wilson

SUCCULENTS:

1 st :	<i>Stapelia gigantea</i>	Linda & George Dochterman
2 nd :	<i>Euphorbia serendiana</i>	Peter Walkowiak
2 nd :	<i>Lomatophyllum</i> (sp.)	Mark Fryer
3 rd :	<i>Othonna herrei</i>	Rudy Lime
3 rd :	<i>Aloe somaliensis</i>	Allen Clark

Expertly judged by Elibet Marshall,
not so expertly recorded by Steve Harris.



WHAT'S THE STATUS?

By Art Cooley

At the last meeting of the Cactus and Succulent Society, members heard about global warming and efforts to reduce greenhouse gases. Subsequent to the meeting, in mid-October, Gov. Arnold Schwarzenegger announced that California would participate in a market-based program with the European Union and seven states in the U.S. Northeast to reduce emissions linked to global warming. He, along with New York's Gov. George Pataki and New York City's Mayor Bloomberg, support an emissions trading program. Last month, Schwarzenegger signed into California law the Global Warming Solutions Act of 2006 (AB 32), which mandates caps on emissions to reduce greenhouse gases 25 percent by 2020.

The San Diego Natural History Museum is hosting a lecture series on global warming that started in October. The next lecture is Tuesday, November 14, and is entitled, "Global Climate Change, Sea Level and Western Megadrought" by Dr. Jonathan Overpeck, University of Arizona. See the museum website for future lectures in February, March and April, <http://www.sdnhm.org>

Mayor Nickels of Seattle has challenged other mayors to join his effort to reduce greenhouse gases. To date, more than 300 cities have accepted the challenge to reduce greenhouse gases, however, the only cities in southern California that have accepted the challenge are Del Mar and San Diego. See his website for more details, <http://www.seattle.gov/mayor/climate>.

The head of PG&E, Peter Darbee announced that his company has evaluated the science of global warming and that it indicates that the warming is due to man's activities. He supports the CA Global Warming Solutions Act (AB 32) which sets up a cap on emissions and a trading system that will stimulate the lowest costs for reductions. His support is based upon the science available and indicates his desire to position his company to be in favorable position to do business in a world where carbon emissions has a cost.



Editorial comic published by permission of the North County Times. Author: John Webster, Vista. Submitted by Joe Kraatz .

UPCOMING EVENTS

2006

Nov 4: 9:30am-4:00pm San Diego Horticultural Society Fall Plant Sale, Bernardo Winery, 13330 Paseo del Verano Norte, Rancho Bernardo.

Nov 14: 6:30pm-8:00pm "Global Climate Change, Sea Level and Western Megadrought" by Jonathan Overpeck of the University of Arizona, San Diego Natural History Museum, 1788 El Prado, San Diego.

Nov 15: 6:00pm SDCSS Board meeting at Tom DeMerritt's house.

Dec 2-3: 10:00am-4:00pm Orange County C&SS show & sale, Fullerton Arboretum.

Dec 9: SDCSS Holiday Party, noon until we have too much fun!

2007

Jan 9: 6:30pm-8pm "How We Know the Climate is Changing" by Mark Thiemens of the University of California San Diego, San Diego Natural History Museum, 1788 El Prado, San Diego.

Feb 10: 9:00am-4:00pm SDCSS Winter Show and Sale.

Mar 2-4: San Diego Spring Home/Garden Show, Fri Noon-7:00pm, Sat 10:00am-7:00pm, Sun 10:00am-5:00pm, Del Mar Fairgrounds.

Apr 26-29: Southern California Spring Garden Show, 10:00am-9:00pm Thurs & Fri, 10:am-8:00pm Sat, 11:00am-6:30pm Sun, South Coast Plaza, 3333 Bristol St., Costa Mesa.

May 25-30: CSSA 32nd Biennial Convention at the Seattle Airport DoubleTree Hotel. Reception May 25, presentations May 26, 27, 29, 30 and field trips May 28.



Photo: *Ariocarpus agavoides*
by Juergen Menzel.

The due date for submission of article (Plants of the Month) and information on the program/speaker will be the meeting preceding the intended issue (approximately one month ahead of time). The due date for letters, regular columns, brag table winners, and the President's Message will be one week later. All submissions are to be made to the Editors.

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Education, Conservation & Exhibits

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Brag Table: Kay Quijada
Plants of the Month: Mark Fryer
Summer Show: Tom Knapik, Phil Kent
Winter Show: Phil Kent, Terry Parr
Historian: Terry Parr
Library: Jan Kent & Phil Kent, Allen Clark
Exchange Plants & Seeds: Michelle Heckathorn & Sara Schell
Seed Exchange: Vacant

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Mailing: Jean & Bill O'Daniel
Annual Sales: Chris Miller
Auction & Holiday Plants: Lee Badger & Tom DeMerritt
Monthly Plant Sales: Jeff Harris & Joe Kraatz
Monthly Supply Sales: George & Jerry Plaisted
Benefit Drawing Table: Terry Parr, Lee Badger
Publicity: Tom DeMerritt & Joe Kraatz
Programs: Mark Fryer
Reception: Ethyl Standish
Monthly Regalement: Rudy Lime, Susie White
Picnic Regalement: Laura & Tom DeMerritt

Liaison

Balboa Park Desert Garden: Susan Hopkins
CSSA Affiliate Rep: Vacant
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