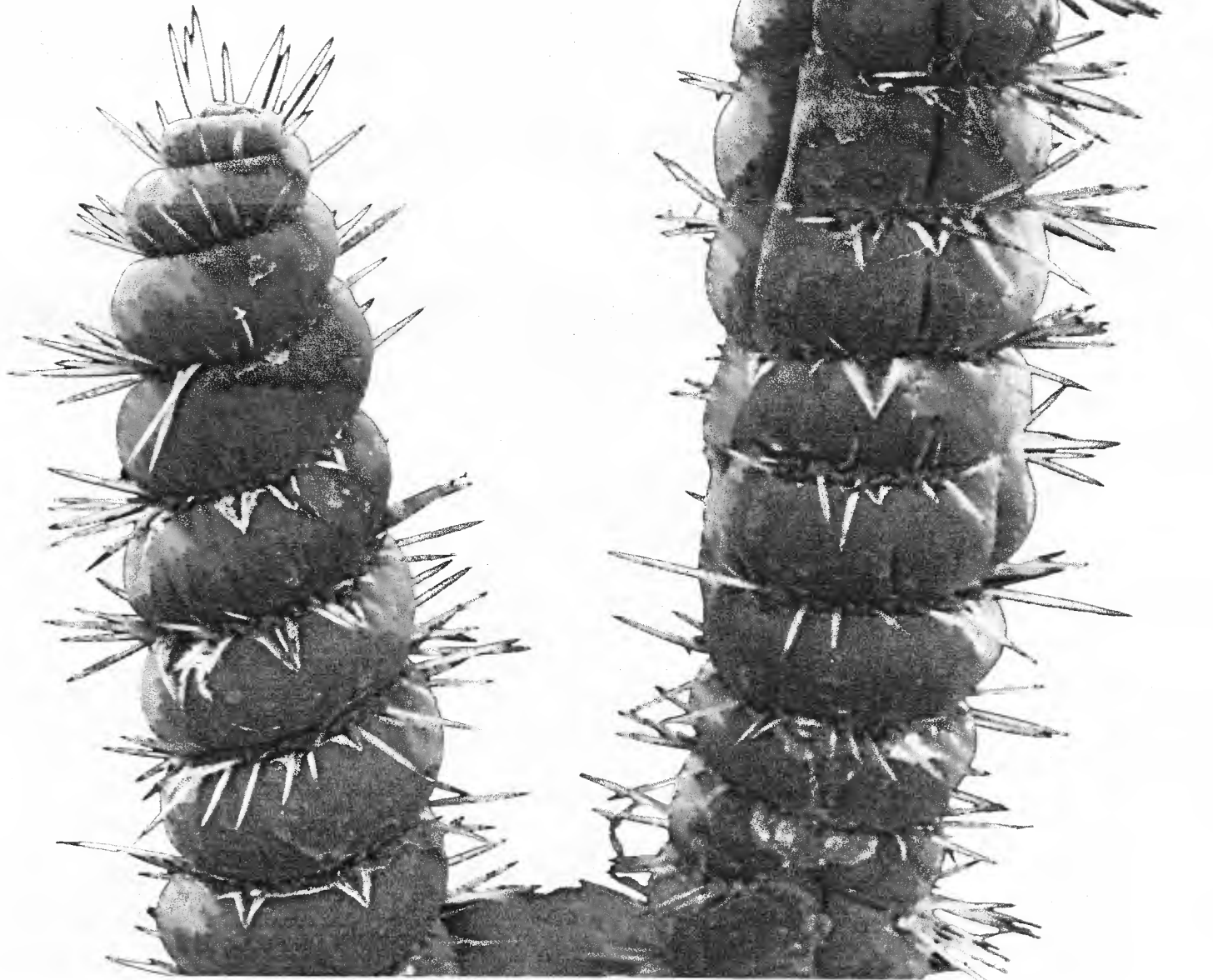
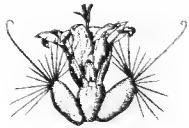


Espinas y Flores

Newsletter of the San Diego Cactus and Succulent Society, Inc.
Affiliated with the Cactus and Succulent Society of America
Volume 36, Number 2, Saturday, February 10, 2001 at 1:00 PM
PROMOTING KNOWLEDGE, STUDY AND INTEREST IN CACTI AND SUCCULENT PLANTS, VISIT US AT SDCCSS.COM



EUROPEAN VACATION

During the summer of 1998, Tom Knapik spent two weeks visiting plant nurseries in several European countries. Italy, his first stop, has over six thousand members in their two national cactus societies. Tom visited and photographed one of the finest private collections in all of Italy just outside of Florence. He also visited Carlo Doni, an authority and author on Copiapoa and distributor of the well-illustrated journal, Cactus & Co. Tom also attended and photographed a small cactus show held by a local club.

Other collections were photographed in Vienna, Austria and Plizen in the Czech. Republic where he spent time with Vitezslav Vlk. Slava, as he is known, has explored parts of Ethiopia extensively and has propagated some of the rarest succulents anywhere.

One last photographic stop was Kew Gardens in England where Tom met with Nigel Talyor, the current director of the plant collection. He saw what was going on behind the scenes of one of the most well known gardens in the world. Tom's photographs will not only include the succulents grown in parts of Europe but also some of the wonderful architecture, historic landmarks, and natural history where ever he traveled.

Join us for this unique 'European Vacation' Feb 10, 2001 Casa Del Prado, Balboa Park at 1:00PM



Cover Photograph: No, this is not a joke. This fantastic freak of *Eulychnia castanea* was photographed in a private collection in Italy and is part of Tom's program on the cultivated succulents of some European growers.



Please send your letters, artwork, poetry, Cactus or Succulent of the Month articles, puzzles, comments, or criticisms, etc. to:

Tom Knapik
4669 71 street
La Mesa, CA 91941
Phone 619-462-1805 e-mail eyf 2000
Call ahead for FAX 858-569-8510

NEWSLETTER SUBMISSIONS ARE DUE BEFORE THE 14TH EACH MONTH UNLESS OTHER ARRANGEMENTS ARE MADE.

Espinas y Flores, the newsletter of the San Diego Cactus and Succulent Society, Incorporated, P.O. Box 33181, San Diego, CA 92163-3181, is published monthly with the exception of a combined May-June issue (11 mailings per year). Newsletter circulation is approximately 260, with approximately 20-30 issues going to educational institutions, botanical societies, cactus and succulent nurseries, local publications, related natural history events, exhibits, and other interested groups or individuals upon request. Subscriptions are \$15 per year for bulk mail within the U.S.A.

Opinions stated in the articles and editorials of *Espinas y Flores* are solely the opinions of the authors or editor and do not necessarily represent the opinions of other SDCSS members, the Board of Directors, or the organization in general. All materials submitted to *Espinas y Flores* for possible publication may be edited in form and content. All material in the *Espinas y Flores* may be reprinted by other nonprofit organizations (unless such permission is expressly denied in a note accompanying the material) provided that: proper credit is given to the SDCSS, *Espinas y Flores*, and the author. Please send one copy of the publication containing the reprinted material to the editor. Reproduction in whole or part by any other organization of publication without the permission of the editor is prohibited. Volume 36, Number 2, Published, January 31, 2001.

PRESIDENT'S MESSAGE FEBRUARY

What a great day we had on Saturday, January 13th! It was an absolutely beautiful day and after two days of rain it seemed everyone was ready to get out to the park and come to our Fourth Annual Winter Show and Sale. And a fine show it was...Many members brought in some of their winter growing plants which made a beautiful display. The Echeverias and Dudleyas were amazing with their pastel colors and contrasting blooms; Lee Badger's display of Baja succulents; Kelly Griffin's excellent display of hybrids with their lineage also on display and cleverly labeled was fascinating and educational; the magnificent *Dioscorea* was the talk of the show. Many thanks to all who made the effort to bring in so many fine plants, without your efforts there would be no show.

The whole day went very smoothly thanks to Ed DeLollis and Tom Birt for all their organizing efforts. The cashiering team did a great job - special thanks to Spencer Maze, Michelle Heckathorn, Laura De Merritt, Carol Jean Wolcott and the amazing Joe Kraatz whom I am sure was running that cash register in his sleep that night! Thanks to this team and all others who pitched in we broke all records for sales.

Of course, there would be no sales without the vendors, and what a wonderful selection of plants and pottery to choose from. Despite a pledge to not buy any plants this time, Lee and I came home with several beauties as well as some great pottery. I feel privileged to be associated with such a talented, dedicated and prolific group of people. During a brief stint at the cashier table, I was pleased to see so many fine and unusual plants find homes, and more people become hooked on the wonder of these plants. We actually signed up quite a few new members! Welcome to you all.

Thanks again to all members who contributed to making this show and sale a success, and I apologize if I missed naming some who made great efforts - there are so many of you!!! If you have any ideas for improving this event, please contact myself or any of the Board members, we are always looking for ways to improve. Sincerely, Pam Badger pambadge@earthlink.net

SHOW SALES CHAIR MESSAGE

This event was nearly perfect. Only two incidents marred its perfection: One Haworthia was apparently stolen from the show area, and we had a temporary shortage of tables for our vendors. The sales tally was only off by eleven cents. Not too bad when you consider the record sales of total monies received: gross sales over \$11,400 and net sales \$10,649.50.

I didn't get a chance to take any notes on the show area, but many of the entries were superb. Kelly Griffin's Aloe hybrid display was both interesting and beautiful. Thanks to all who took the time to exhibit. The weather obviously was the main factor accounting for the huge attendance. I wish we could know the total head count.

Gerhard Marx gave an interesting presentation. It was nice to be able to see many of the plants he described for sale at his Arid Lands Greenhouses tables. The bare root condition of their offerings was necessary because of his travel conditions coming from Tucson, but it allowed for a greater variety than would have been possible if he had to bring potted plants.

Many thanks are due to our volunteers. At the cash register area I would like to thank Carol Jean Wolcott, Michelle Heckathorn, Joe Kraatz (who also made and set out event posters all around the park), Cindy Weed, Pam Badger, Spencer Maze, and Laura De Merritt (she felt the thrill and power of using the hand scanner). If I left anyone out, I apologize; I should not have written this two weeks after the event, but my work schedule has not allowed me an earlier opportunity. George Plaisted also deserves much praise. He did a great job of keeping us well stocked with change, and handled the accounting well. As our new treasurer, he handled everything professionally and competently.

Thanks also to all who brought in boxes, bags, and packing material, they were much appreciated.

The vendors deserve much praise for the sheer variety presented to the public, and for all the advice they gave concerning cultivation. New vendors for our



Continued on page 4

Continued from page 3

annual sales: Arid Lands Greenhouses and Azania Plants (SDCSS for the Baja Fund).

Also deserving praise: Ed DeLollis - show chairman - for all his work setting up and overseeing the event, Jeff Harris - for helping out anywhere he could, Tom De Merritt - for his audio/visual and electrical expertise, Pam Badger - for keeping us all well fed, everyone responsible for the new coffee pot full of that necessity, The Balboa Park staff - for helping with tables, chairs, and for the use of room 101 and 104, and Joey Betzler - for sending out to me the bar code samples, and for helping supply these for many of the vendors.

Due to all the volunteers and vendors work, we had many inquiries concerning membership. Maybe next year we can have a membership table with volunteers available for helping our club increase in size and diversity.

As always it was a lot of work and a lot of fun. Sincerely Tom Birt

Calendar of Upcoming Events

⇒ FEBRUARY

— 2001 —

23-25 CSS of New Zealand Annual General Meeting and Convention, Lincoln Green Motor Hotel, 159 Lincoln Rd., Henderson, Auckland

⇒ MARCH

2-4 Mark your calendars for the Spring Home and Garden Show. (springhomegardenshow.com). This is our annual event to see what is what in the gardens of San Diego.

24 Going to Hawaii? Stop by the Lyon Arboretum Plant Sale to support our most western C&S Soc. call Nathan Wong, 808-522-7063, for more details.

⇒ APRIL

13-16 Succulenticon 2001, the Conference of the Australasian Cactus and Succulent Societies at the Hotel Heritage, Narrabundah, ACT. Presentations by 14 speakers from all over Australia will feature aspects of the Australian scene as well as presentations by speakers of their overseas field trips, studies and specialty interests. Other activities include sales of quality plants and books and a visit to local collections. For further information either write to Succulenticon 2001, PO Box 484, Mawson ACT 2607 or email smith@dynamite.com.au

⇒ JUNE

2-3 SDCSS Spring Show and Sale – start thinking now about those show plants. We need a great showing this year ... especially those prize cactus specimens!

30-1 CSSA Show & Sale, Huntington Botanical Gardens, 1151 Oxford Rd., San Marino CA.

⇒ JULY SUPPORT THE NEXT CALIFORNIA CACTUS AND SUCCULENT CONVENTION

1-6 2001 CSSA Convention **PLAN NOW TO ATTEND!**, Warner Center Marriott, 21850 Oxnard St, Woodland Hills CA. **This is the correct date!** See www.cssainc.org/convent.html for details

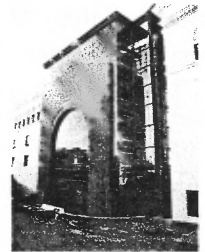
FYI FYI F O R Y O U R I N F O R M A T I O N FYI FYI

⇒ **YOU HEARD IT HERE FIRST:** Joe Kraatz was randomly picked, as one of the first five recipients of the Schwartz Travel Grants, administered by the CSSA. The grant is to be applied toward travel to Africa, Madagascar or India. Being a winner, Joe will be writing a story regarding his experiences! The grant is the 'brainchild' of Herman Schwartz, a SDCSS member and the owner of Strawberry Press (specializing in books on Succulents) in Mill Valley, California.

⇒ Congratulations to Tom Vermilion, the new editor of *Communique* San Gabriel Valley Cactus and Succulent Society. We need as many editors out there as we can get!

⇒ **San Diego Natural History Museum** news ... the theater ceiling is finished and the scaffolding that has filled the theater for the last several months has been removed. In fact, ceilings are going up throughout the building. Installation of electric and data line is early completed. Both old and new buildings have new roofs and are leakproof. The most visible progress is the installation of the glass on the north or fig tree-entrance. It is nearly completed.

⇒ **The Huntington Botanical Complex** is closer to being done. Though it is not advertised, it is the middle part in a series of renovations to the most important part of the Huntington, its botanical part. Their Mission: "The Huntington Library, Art Collections, and Botanical Gardens is a private, independent institution dedicated to scholarship, conservation, and education in the arts and humanities". For more information and pictures of this botanical complex check out What's The Status on Page 10



Spectacular Succulent Diversity in Lower California: A Mexican Wonderland

By Jon Rebman, Ph.D.

LOWER CALIFORNIA IS COMPRISED OF TWO STATES: Baja California (BC) and Baja California Sur (BCS) that are politically divided at the 28th parallel. These states compose the Baja California peninsula and its adjacent islands located in both the Gulf of California (Sea of Cortés) and the Pacific Ocean. This region is rich in plant species due to its varied topography, geology, and weather regimes. These factors, in addition to the area's biogeographic history, have resulted in a wide range of vegetation types that include coastal chaparral, conifer forest, various desert communities, and tropical deciduous forest. This piece of land and its adjacent islands support a wealth of species diversity in many different plant families. It has been estimated by Wiggins (1980) that 2,958 total taxa and 686 endemic species that can be found in Lower California, but recent plant discoveries and a more complete overview of the literature suggests that the flora probably consists of more than 4,000 plant taxa with a rate of endemism closer to 30%.

Of this floristic diversity, many of the plant species have specialized adaptations for survival in arid environments. One of the most common xerophytic adaptations throughout the world's deserts is that of succulence in leaves, stems, or roots. These succulent plants have at least some tissues in a portion of their plant body that is modified and capable of storing large amounts of water, making the plant part

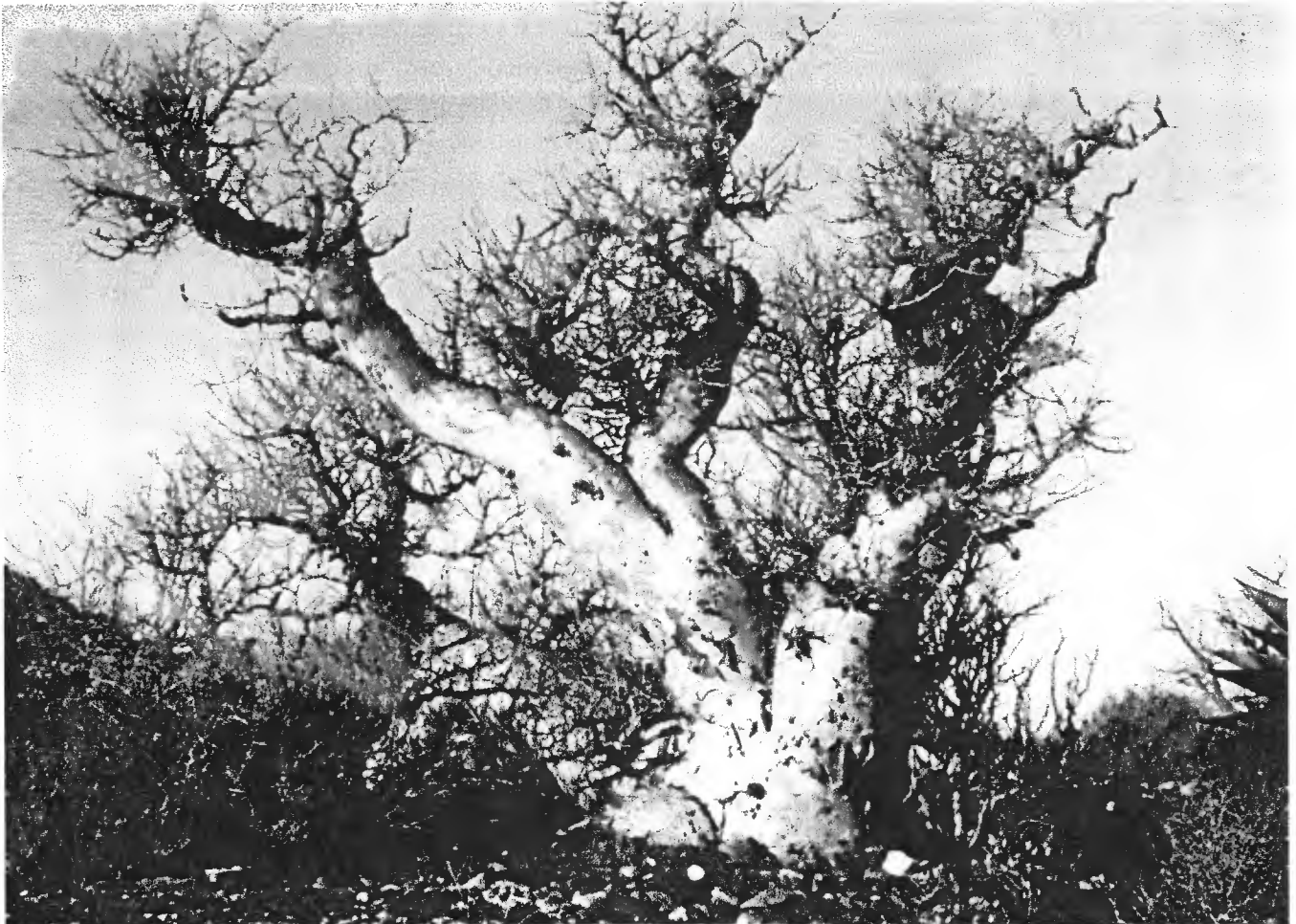


Figure 1: An Elephant Tree/Copalquín (*Anacardiaceae: Pachycormus discolor*) in the Vizcaíno Desert region of central Lower California, Mexico.



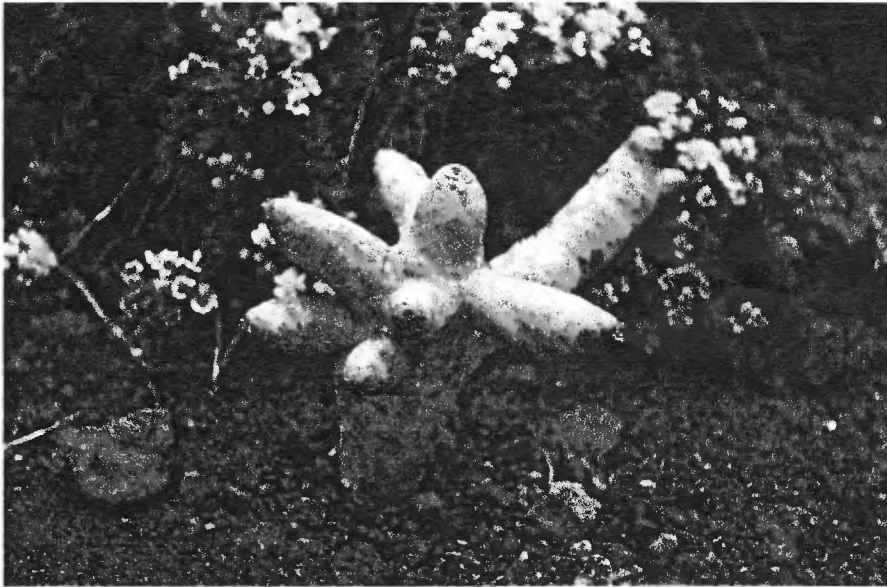


Figure 2: A rare species and a leaf succulent, *Baeriopsis guadalupensis*, in the Sunflower family (*Asteraceae*). This monotypic genus is endemic only to Guadalupe Island and its islets in the Pacific Ocean off of Lower California.

appear fleshy, succulent, or swollen. For instance, the fleshy leaves of agaves, the fattened stems of cardón cacti, or the swollen trunks of elephant trees (Figure 1: *Pachycormus discolor*) are all obvious examples of xerophytic modifications and are generally considered succulents. Classically, succulent plants are sometimes even further differentiated from some plants with fleshy leaves or stems by having the ability to use stored water reserves in their tissues and subsequently tolerate long periods of aridity, although it is sometimes

and different ancestries. These adaptations exemplify convergent evolution which is obvious in the overall similarities of the euphorbias of Africa and the New World cacti. It is estimated that there are approximately 10,000 succulent plant species throughout the world with most of these found in the *Agavaceae*, *Aizoaceae*, *Asclepiadaceae*, *Asphodelaceae* (*Aloeaceae*), *Cactaceae*, *Crassulaceae*, *Euphorbiaceae*, and *Portulacaceae* (Oldfield 1997).

The arid portions of Lower California are no

exception to succulent diversity. It is estimated that there are 34 vascular plant families and 280 species, 325 total taxa (species and infraspecific categories including varieties and subspecies) in Lower California that can be regarded as leaf or stem succulents. Some of the plant families with succulent members in the region include: *Aizoaceae*, *Asteraceae* (Figure 2: *Baeriopsis guadalupensis*), *Bromeliaceae*, *Chenopodiaceae*, *Cucurbitaceae*, *Fouquieriaceae*, *Nolinaceae*, *Nyctaginaceae*, *Solanaceae*, and *Vitaceae*. However, the highest diversity of succulents in

It is estimated that there are approximately 10,000 succulent plant species throughout the world with most of these found in the *Agavaceae*, *Aizoaceae*, *Asclepiadaceae*, *Asphodelaceae* (*Aloeaceae*), *Cactaceae*, *Crassulaceae*, *Euphorbiaceae*, and *Portulacaceae*.

difficult to discern this functional difference. Throughout the botanical kingdom, species in various plant families and genera have independently evolved the adaptation to succulence as a mechanism for conserving water and survival in arid environments. This functional modification to water limiting conditions is just one of many morphological and physiological adaptations that can be seen in various plant species from different deserts

Lower California can be found in five plant families: *Cactaceae* (129 taxa), *Crassulaceae* (38 taxa), *Agavaceae* (26 taxa), *Portulacaceae* (14 taxa), and *Euphorbiaceae* (13 taxa). Almost 60 % of all of the known succulents in Lower California can be found in three plant families: *Cactaceae*, *Crassulaceae*, and *Agavaceae*. In these three most diverse succulent plant families, the percentage of plant taxa endemic to Lower California is also very high. The *Agavaceae* has

the highest percentage of plant endemism among these families with 84.6 % or 22 endemic plant taxa. The *Cactaceae* has 92 endemic taxa (71.3 % endemism) and the *Crassulaceae* has 26 endemic taxa (68.4 %).

The Sonoran Desert of Arizona, California, Sonora, Baja California, and Baja California Sur has been categorized by some authors (e.g. Shreve & Wiggins 1964) into various subdivisions based upon regional plant

assemblages or perennial vegetation types. In Lower California, succulent plant species are so dominant in some parts that two of these subdivisions have names that reflect their abundance. According to Shreve and Wiggins (1964), the Sarcocaulous Desert Subdivision (Central Gulf Coast region) is dominated by trees with an enlarged or exaggerated trunk diameter, which include species of *Bursera*, *Jatropha*, and *Fouquieria*; and the Sarcophyllous Desert Subdivision (Vizcaíno region) has many leaf succulent species of *Agave*, *Yucca*, and *Dudleya*. In these areas of Lower California and in almost all vegetation types found in the region, a diversity of succulent plants abound.

The spectacular diversity of succulents in

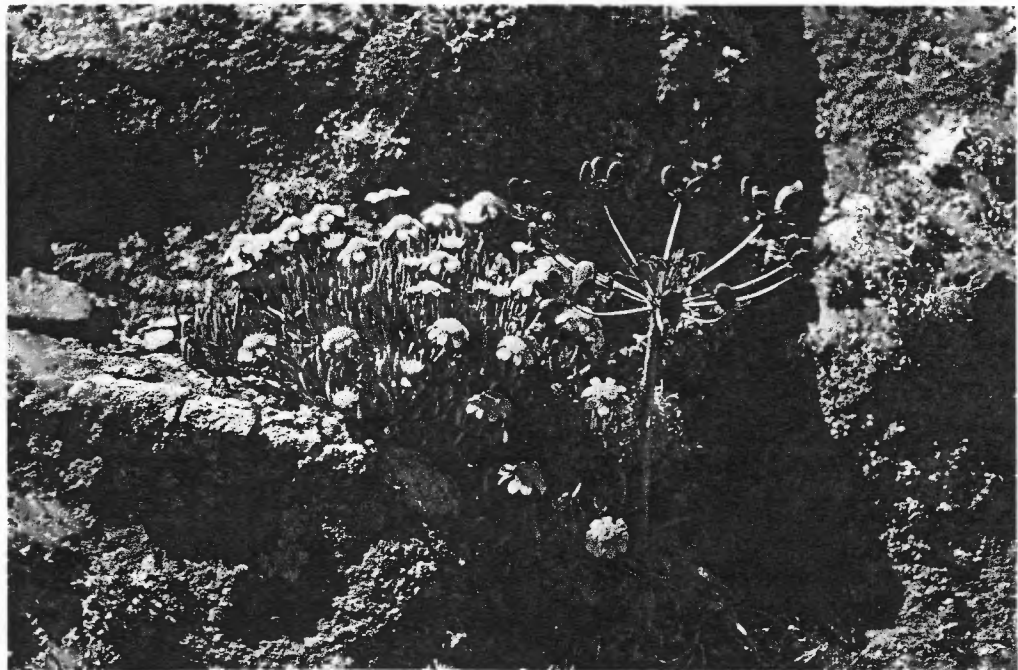


Figure 3: *Cistanthe (Talinum) guadalupensis* (*Portulacaceae*) is a leaf and stem succulent endemic to Guadalupe Island, Baja California, although this specimen is without leaves at the time of the photo.

Lower California is a rich heritage. Ranging from the tiny, almost invisible, pincushion cacti/viejitos (*Mammillaria* spp.), to mounds of liveforevers/siemprevivas (*Dudleya* spp.), shrubs of Slipper Plant/Candelilla (*Pedilanthus macrocarpus*), to succulent forests dominated by Boojum Trees/Cirios (*Fouquieria columnaris*), elephant trees/torotes/copals (*Pachycormus*, *Bursera* spp.), and giant Elephant Cacti/Cardóns (*Pachycereus pringlei*), succulent plant species can be found in almost every vegetation type and plant community in Lower California. With more than 300 taxa of succulents present and with a rather high rate of endemism (see Figure 3: *Cistanthe guadalupensis*), the succulents of Lower California are truly unique in nature.

Literature Cited:

- Oldfield, Sara. 1997. Cactus and Succulent Plants – Status Survey and Conservation Action Plan. IUCN/SSC Cactus and Succulent Specialist Group. IUCN, Cambridge, UK.
- Shreve, Forrest and Ira L. Wiggins. 1964. Vegetation and flora of the Sonoran Desert. Stanford University Press, Stanford, California.
- Wiggins, Ira L. 1980. Flora of Baja California. Stanford University Press, Stanford, California.



Dry Adaptations Don't Mean a Leafless Existence

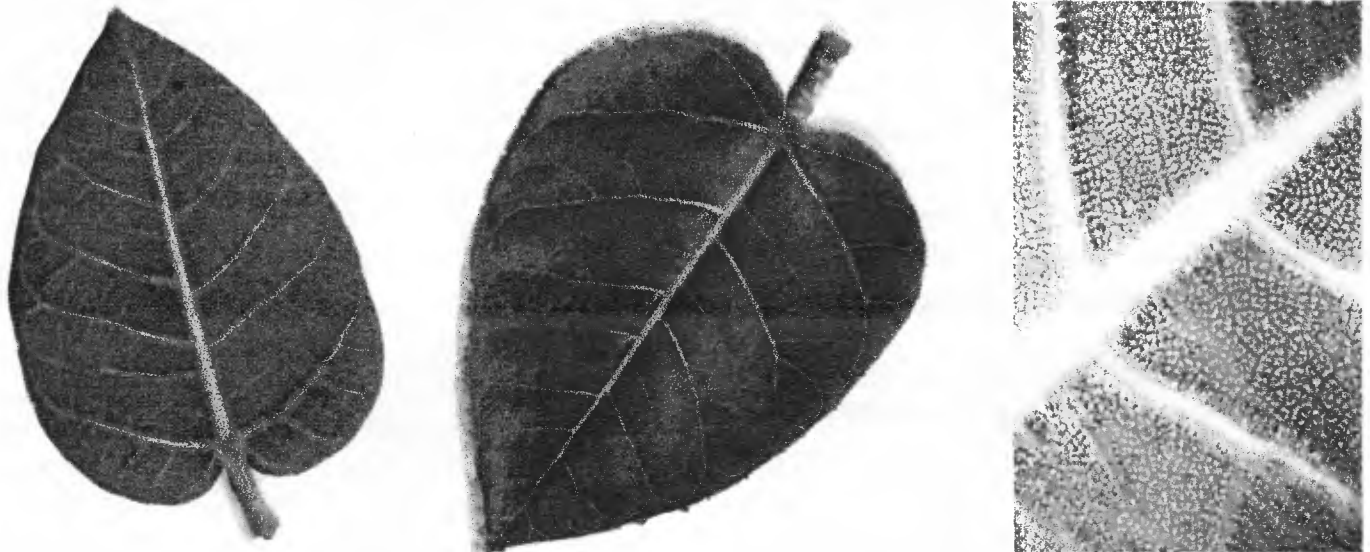
by Joey Betzler

According to Oldfield (1997) 10,000 succulents are found in eight plant families (see page 6). Some of my favorite succulents trees are not included in any of these plant families. *Bursera* in the Burseraceae, or frankincense and myrrh Family. These avoid drought by having their famous resinous sap and other strategies to avoid drying out. All of these leaf examples are life size unless noted. Please note that there is a lot of variabil-

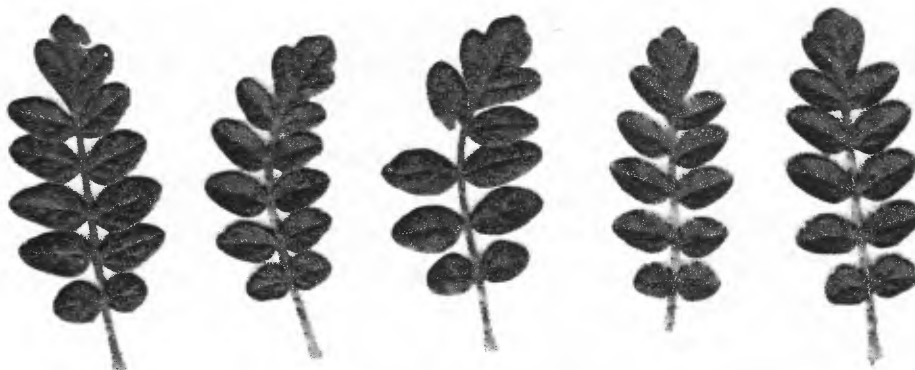


Bursera hindsiana leaves look very different from *B. microphylla* leaves to the right. Also *B. microphylla* leaves and stems are very fragrant with the smell of resin when bruised

Below is Baja's, *Ficus palmeri*, though a member of the Fig family (*Moraceae*), protects itself with small furry leaves. The hairs on the leaves are a way to slow down the loss of water in hot dry air.



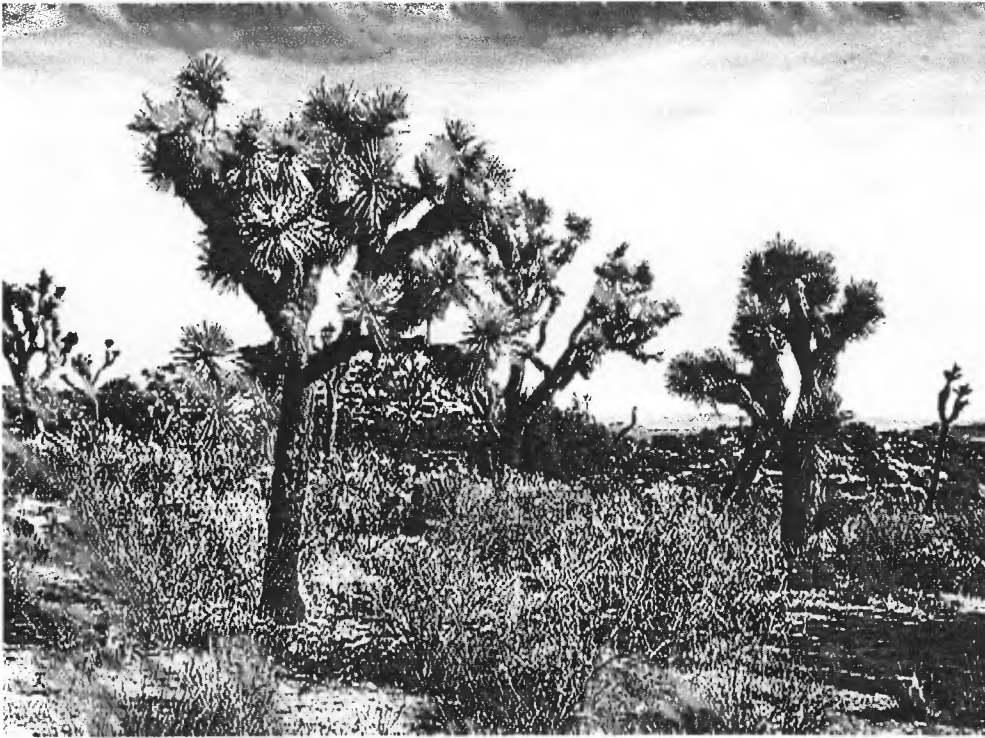
These *Ficus palmeri* leaves are big compared to the other species seen here and are very hairy on the underside. If you look at other large leaved plants that inhabit dry regions you may notice different types of hairs on leaves. This is a common theme in harsh environments. The hairs act as insulation from sunlight and the drying effects of the wind. They may also act as dew collectors to capture water. The under surface of the leaf pictured is at about 60 times magnifications showing the leaf hairs.



These *Pachycormus* leaves, as well as the other material here was collected from the Baja Garden at the Wild Animal Park with permission. Come visit the garden and see the wonderful diversity that exists there. The Baja and Old World Succulent Garden are tended by volunteers from SDCSS and the Palomar CSS, come out and lend a hand.

One of my favorites is *Pachycormus discolor*, An Elephant Tree in the *Anacardiaceae* or Cashew family. Though the leaves are slightly hairy to protect them a bit in hot weather, they are shed as the desert weather warms up. In the late Spring to early Summer, Elephant Tree Forests come alive with the colors of fall. Yellow hues of fine leaves make these forests spectacular to behold. Don't ever pass up an opportunity to witness this spectacular sight.

The Mojave Desert



The transition from the hot Sonoran Desert to the cooler and higher Great Basin is called the Mojave Desert. This arid region includes portions of southeastern California, Nevada, Arizona and Utah and occupies more than 25000 square miles. Near the Great Basin-Mojave border lies Death Valley, the lowest point in North America.

About 200 endemic plant species occur here. Cacti are usually restricted to the coarse soils of bajadas, the weathered slopes at the

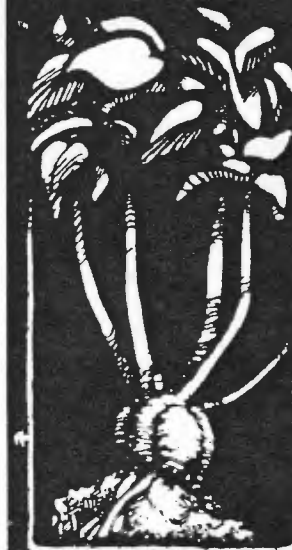
base of the mountains. Mojave Yucca and, at higher elevations, Desert Spanish Bayonet are prominent. The Joshua tree, considered the prime indicator of the Mojave Desert, is found only in this desert.

Encompassing parts of three National Parks and over 40 wilderness areas, the East Mojave represents one of North America's most pristine natural areas. Although it lies within a six-hour drive from over 25 universities and research institutions. Many of East Mojave's basic physical, cultural, and biological attributes remain poorly understood. Thus, the East Mojave Desert presents a fertile opportunity for research and education. The Granite Mountains are one of the larger ranges in the East Mojave. The range supports abundant plant and animal communities that include some Great Basin and Colorado species nearing their southern and northern limits, respectively. Modern research facilities in Granite Cove, a 9000-acre reserve greatly improves the quality and efficiency of research in the region.

Joshua National monument in the southwestern part of the Mojave is a large research center for arid ecosystems. The photograph above was taken at the park.

Reprinted from the Feb. 2000 issue of *Points of Interest* newsletter of the Colorado Cactus and Succulent Society with permission

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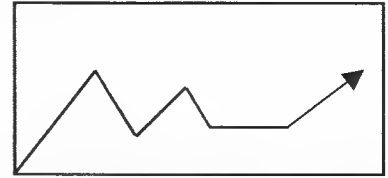
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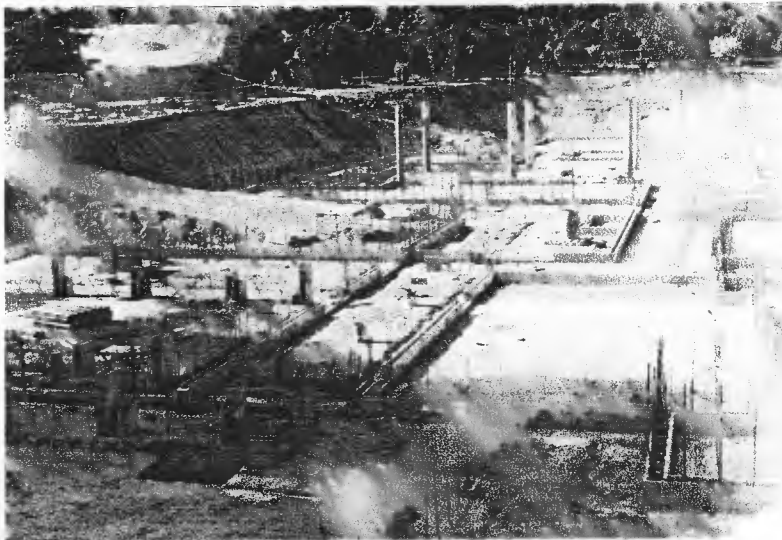
WHAT'S THE STATUS?
by Joey Betzler



Topic # 11 A New World Class Botanical Center at The Huntington Botanic Gardens



The Botanical Buildings are almost done. Recently, the Cactus and Succulent Society of America was happy to be the first botanical group to have their Board meetings in this usable space. The Board was also happy to visit the long awaited CSSA Library site within the building.



The excavation was massive and oversize to make the construction easier. A lot of earthquake safety and conservation measures were put into this building in the beginning.



In this view, Jim is just visible (arrow) within the proposed area that now houses the CSSA library. All CSSA book holdings and historical papers will be housed here.

Joe Clements, with his arms outstretched, is talking about the project with CSSA Board members, Myron Kimmach, immediate past Director of Botany at the Huntington and CSSA Editor is just in front of Joe



Jim Folsom, Director of Botany, is the dreamer behind this project. Here he is looking out over the project early in 2000.



SDCSS Meetings 2001

Meetings are held on the second Saturday of each month, (except June, Sept., and Dec.), at 1:00 PM in Room 101, Casa del Prado, Balboa Park in downtown San Diego. Admission is free and all persons with an interest in Cacti or Succulents are invited! Arrive early to shop at the pre-meeting plant sale. For more information see back page.

Date	CACTUS OF THE MONTH	SUCCULENT OF THE MONTH	Program
Jan. 13 9:00AM to 5:00PM	<i>4th Annual Winter ShowBook, Plant and Ceramic Sale</i>		Gerhard Marx - Succulents of the Eastern and Western Cape provinces
Feb. 10 1:00PM	Baja Succulents by Dr. Jon Rebman		Tom Knapik Adventures in Europe - a look at European cactus and succulent collections
March 10 1:00PM	Tephrocactus Tom De Merritt	Crassula Phil Bunch	Steven Southwell A serious look at the fine art of plant staging
April 14 1:00PM	Ariocarpus Ross Shumway	Arabian Peninsula Aloes Kelly Griffin	Brian Kemble Namaqualand and beyond (recent 2000 visit)
May 12	Micropuntia Juergen Menzel	Trascadentia/Wandering Jew /Gasneriads Joyce Buckner	TBA open at this time
June 2 & 3 (Set-up Jun 1)	<i>Show</i> Fri. 10-8 (setup) Sat. 10-5 & Sun. 9-5	<i>Sale Begins:</i> Sat. 9AM Sun. 10AM	June Show & Sale Free to all
July 14 1:00PM	Grafting Cacti Mark Fryer	Echeverias Marylyn Henderson	Dylan Hannon The Isle of Socotra <i>2001</i>
August 11 1:00PM	Variegated Cactus and Succulents by Kelly Griffin		Woody Minnich Up the Amazon!
Sept. 8 11:00AM to 4:00PM	<i>Annual Potluck Picnic</i> Kate Sessions Park	<i>Plant Auction</i>	Homemade Goodies!
Oct. 13 1:00PM	TBA ???	Stapeliads Joey Betzler	Steven Hammer To be announced
Nov. 10 1:00PM	The Ethnobotany of New World Succulents and Cactus by Pam Badger		Tim Jackson Conophytums up close and personal in cultivation
Dec. 8 12:00 noon	Holiday Dinner	Gift Exchange Plant Drawing	Potluck Desserts

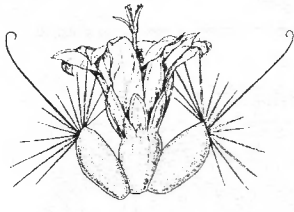
All programs are subject change. Always check the most recent Espinas y Flores for programs

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The San Diego Cactus & Succulent Society, Inc.
P.O. Box 33181, San Diego, CA 92163-3181



<p style="text-align: center;"><i>ESPINAS Y FLORES</i></p> <p style="text-align: center;">Editors: Tom Knapik - 619-462-1805 Joey Betzler - 858-569-8510 Mail to: 4669 71 St., La Mesa, CA 91941 call for fax or e-mail eyf2000@aol.com</p> <hr/> <p style="text-align: center;">San Diego Cactus and Succulent Society, Inc.</p> <p style="text-align: center;">2001 Executive Board Members</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p style="text-align: center;">OFFICERS</p> <p>President - Pam Badger 619-589-1223</p> <p>Vice Pres.- Jeff Harris 619-294-5708</p> <p>Secretary - Laura De Merritt 858-270-5544</p> <p>Treasurer - George Flaisted 619-583-9551</p> <p style="text-align: center;">EX OFFICIO</p> <p>Immediate Past President - Tom De Merritt 858-270-5544</p> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p style="text-align: center;">DIRECTORS</p> <p>Lee Badger 619-589-1223</p> <p>Ed DeLollis 760-945-7892</p> <p>Joe Kraatz 760 758-7042</p> <p>Spencer Maze 858-454-1870</p> <p>Terry Parr 619-460-9111</p> <p>Kelly Parrott 619-696-0376</p> </td> </tr> </table>	<p style="text-align: center;">OFFICERS</p> <p>President - Pam Badger 619-589-1223</p> <p>Vice Pres.- Jeff Harris 619-294-5708</p> <p>Secretary - Laura De Merritt 858-270-5544</p> <p>Treasurer - George Flaisted 619-583-9551</p> <p style="text-align: center;">EX OFFICIO</p> <p>Immediate Past President - Tom De Merritt 858-270-5544</p>	<p style="text-align: center;">DIRECTORS</p> <p>Lee Badger 619-589-1223</p> <p>Ed DeLollis 760-945-7892</p> <p>Joe Kraatz 760 758-7042</p> <p>Spencer Maze 858-454-1870</p> <p>Terry Parr 619-460-9111</p> <p>Kelly Parrott 619-696-0376</p>	<p style="text-align: center;">SDCSS Volunteers on Standing Committees and Sub-Committees</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 5px;"> <p>Conservation: Joey Betzler and Kelly Griffin</p> <p>Education and Exhibits: Brag Table – Shirley Berry and Kay Quijada</p> <p>Plants of the Month – Jeff Harris and Lee Badger</p> <p>Summer Show – Tom Knapik, J. Betzler and Kay Quijada</p> <p>Winter Show – Ed DeLollis</p> <p>History: vacant</p> <p>Liaison: Balboa Park Desert Garden– Susan Hopkins</p> <p>CSSA Affiliate Rep. – Kelly Griffin</p> <p>Quail Botanic Gardens – Phylis Flechsig</p> <p>San Diego Botanic Garden Foundation – George Flaisted</p> <p>San Diego Floral Association – Elizabeth Glover</p> <p>S. D. Wild Animal Park's Baja and Succulent Collections – J. Betzler</p> <p>Library: Tom Birt and Cynthia Santorini</p> </td> <td style="width: 33%; vertical-align: top; padding: 5px;"> <p>Membership: Joey Betzler (858-569-8510) , Tom De Merritt</p> <p>Mailing: Pam Badger and Jeff Harris</p> <p>Plant and Seed Exchange: Plants – Michele Heckathorn and Sara Schell</p> <p>Seeds – Kelly Griffin</p> <p>Plant Sales and Supplies: Annual Sales – Tom Birt</p> <p>Auction and Holiday Plants – L. Badger, and Tom DeMerritt</p> <p>Benefit Table – Lee Badger</p> <p>Monthly Plant Sales – Jeff Harris and Joe Kraatz</p> <p>Monthly Supply Sales – George and Jerry Plaisted</p> <p>Publicity: Tom DeMerritt and Stan Yalof</p> <p>Programs: Kelly Griffin (760-942-4866)</p> <p>Reception: Ethel Standish</p> <p>Regalement: Monthly – Rudy Lime and Stefy Mangold Picnic – Laura and Tom DeMerritt</p> </td> </tr> </table>	<p>Conservation: Joey Betzler and Kelly Griffin</p> <p>Education and Exhibits: Brag Table – Shirley Berry and Kay Quijada</p> <p>Plants of the Month – Jeff Harris and Lee Badger</p> <p>Summer Show – Tom Knapik, J. Betzler and Kay Quijada</p> <p>Winter Show – Ed DeLollis</p> <p>History: vacant</p> <p>Liaison: Balboa Park Desert Garden– Susan Hopkins</p> <p>CSSA Affiliate Rep. – Kelly Griffin</p> <p>Quail Botanic Gardens – Phylis Flechsig</p> <p>San Diego Botanic Garden Foundation – George Flaisted</p> <p>San Diego Floral Association – Elizabeth Glover</p> <p>S. D. Wild Animal Park's Baja and Succulent Collections – J. Betzler</p> <p>Library: Tom Birt and Cynthia Santorini</p>	<p>Membership: Joey Betzler (858-569-8510) , Tom De Merritt</p> <p>Mailing: Pam Badger and Jeff Harris</p> <p>Plant and Seed Exchange: Plants – Michele Heckathorn and Sara Schell</p> <p>Seeds – Kelly Griffin</p> <p>Plant Sales and Supplies: Annual Sales – Tom Birt</p> <p>Auction and Holiday Plants – L. Badger, and Tom DeMerritt</p> <p>Benefit Table – Lee Badger</p> <p>Monthly Plant Sales – Jeff Harris and Joe Kraatz</p> <p>Monthly Supply Sales – George and Jerry Plaisted</p> <p>Publicity: Tom DeMerritt and Stan Yalof</p> <p>Programs: Kelly Griffin (760-942-4866)</p> <p>Reception: Ethel Standish</p> <p>Regalement: Monthly – Rudy Lime and Stefy Mangold Picnic – Laura and Tom DeMerritt</p>
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The SAN DIEGO CACTUS AND SUCCULENT SOCIETY, INC. is open to all persons interested in growing cacti and other succulent plants. Meetings are held the second Saturday of each month (except June, Sept. and Dec.) at 1:00 PM in room 101, Casa del Prado, Balboa Park. Executive Board meetings are open to all members; call any officer or director for the time and location. Annual dues are \$15.00 per single member per year, \$5.00 for each additional (associate) member within the same household. Single copies of *Espinās y Flores* are \$2.00 per copy sent within the USA; foreign subscriptions are \$30.00. Affiliated with the CACTUS AND SUCCULENT SOCIETY OF AMERICA, Inc. The **New** SDCSS Web Page is: SDCSS.COM - please take a look and give feedback to the webmaster.