

# Espinas y Flores

BULLETIN OF THE SAN DIEGO CACTUS AND SUCCULENT SOCIETY  
*Affiliate of the Cactus and Succulent Society of America, Inc.*

Vol. XIII, No. 1.

January, 1978

JANUARY MEETING DATE:

Saturday, January 14th., 1978.

PROGRAM:

"CONSERVATION, BOOM OR A BUST?"

By: Gary Lyons.

Gary Lyons - Chairman of the C.S.S.A. Conservation Committee - will trace the work on conservation during the past few years, with a look to its future. He will also speak on the Endangered Species Act, the International Trade Convention, Permits, and will focus in on the impact C.S.S.A. has had in shaping the final rules.

This program was originally scheduled for September 1977.

IN THIS ISSUE:.....

We have attempted to cram Everything into this month's bulletin that was received in the way of reports from the various committees and in order not to leave anything out, and still not break the treasury, some have been reduced (in size not content). We hope they are still readable in the final printing!

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## Cactus-of-the-Month

### Turbinicarpus

Dr. Ronald E. Monroe

The genus Turbinicarpus comprises a group of small, inconspicuous, more or less globose, mimicry cacti of the Chihuahuan desert of northern central Mexico (Saltillo in the north to San Luis Potosi and Las Tablas in the South).

The epidermis of the plants is rather soft varying in color from grayish to bluish green to brown; the plant stems are somewhat depressed and pulled low to the soil by large, tapering, fusiform roots.

The spines are of two types: the immature plants all possess rather pectinate and plumose spination with no centrals whereas the mature plants (except T. valdeziana and T. pseudopectinata) have spines that have evolved into structures of camouflage rather than armament for protection (papery or cardboard-like, soft or stiff, tortuous and hair-like, or plumose to pectinate).

Flowers are rather large, open, and white or pinkish (except T. valdeziana which has a reddish violet form near Saltillo).

Since their discovery in 1927 by Bodeker, this group of plants has been the focus of much controversy taxonomically. They have been placed at one time or another, in the following genera: Echinocactus, Strombocactus (and quite a few authors still think this is proper for the genus), Thelocactus, Toumeyia, and, finally, Turbinicarpus. An interested reader is referred to the excellent review by Glass and Foster (1977) who report these plants in great detail. Included in the review, and with some surprise, is their novo comb. of Normanbokea valdeziana and N. pseudopectinata to the Turbinicarpus genus. Naturally, they did not propose this lightly, but with solid evidence based on flower, fruit and seed morphology rather than gross plant stem and spine morphology--only the test of time will judge whether this was a valid decision.

The species now felt proper to the genus are: T. schmiedickeanus v. schmiedickeanus, T. s. v. gracilis, T. s. v. macrochele, T. s. v. klinkeranus, T. s. v. schwarzii, T. lophophoroides, T. laui, T. pseudomacrochele v. pseudomacrochele, T. p. v. krainzianus, T. valdezianus and T. pseudopectinatus.

The plants do quite well in full sun or in a greenhouse, but they should be protected from winter frost. Plants in nature are used to a very Spartan existence, so prolonged periods of drought does not appear to harm them; however, I never let my plants dry out and weekly watering seldom harms mature plants (seedlings may damp off though!). Generous feeding during the growing/flowering period will insure excellent flowering

the following season with I. lophophoroides being the most free-flowering of the group.

Because the plants are not normally caespitose, propagation is best accomplished from seed. Too, the plants are self-sterile, so one will need two or more clones of each species for cross pollenization (via brush or paper book match ends). After the seed has been "cured" for 3-4 weeks, it will germinate freely within ca. seven days after sowing. I use the "baggy method" and damping off has never been a problem.

The main pests are mealy bugs and mites (Cygon · 2E still is effective against the mealy bugs, but we have returned to Kelthane to control the mites as they are fast becoming resistant to organophosphorus compounds). On occasion, ants may attempt to harvest the seed before you do!

#### References

- Borg. J. 1951. Cacti. Blanford Press, England; pp. 276-277.  
 Glass, C. and R. Foster. 1977. A revision of the genus Turbinicarpus (Bkbg.) Buxb. & Bkby. C. and S. J. (U.S.) XLIX: 161-176.

#### CALENDAR FOR 1978

<u>Meeting Date</u>	<u>Succulent of the Month</u>	<u>Cactus of the Month</u>
January 14	Canary Islands	Turbinicarpus
February 11	Winter Stones	Oreocereus
March 11	Aloes	Notocactus
April 8	Yuccas	Coryphantha
May 13	Portulaca & Portulacaria	Lobivia
June 10	Sedum	Frailea
July 8	None <u>PICNIC</u>	None
August 12	Summer Stones	Farodia
September ?	Ceropegia	Uebelmannia
October 14	Dioecious	Melocactus
November 11	Cucurbs	Gymnocalycium
December 9	<u>Your</u> Favorite	<u>Your</u> Favorite

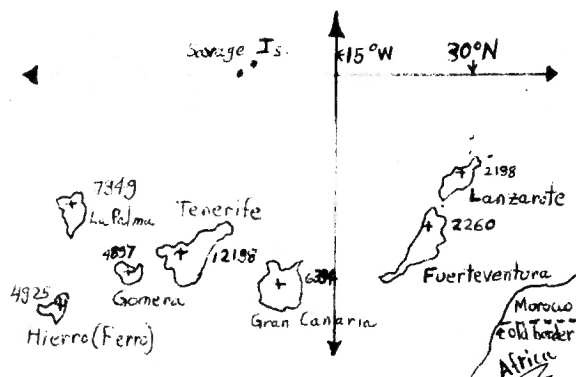
## SUCCULENT-OF-THE MONTH

### Canary Islands

Rick Latimer

The Canary Islands are famous for Canary Birds, the last stopping place of Columbus on his voyage of discovery of the New World, where men send messages by whistling (Gomera), and of course, for its native plants. King Juba II of Mauritania sent an expedition in 40 B. C. to the islands. The explorers were greeted by no inhabitants, only great numbers of oversized dogs. Thus, the island on which they landed was named Canaria (canis = dog). The Canaries are an irregular east-west chain of seven (large, inhabited and six small) volcanic islands, extending about from 60 to 270 miles off the African coast (we are on the opposite side from September) at a latitude only slightly south of ours. The climate is warm and dry (Mediterranean type like ours). The mean annual rainfall occurs in winter between 5 and 15 inches. Desert conditions exist near sea level especially in the eastern islands, more temperate conditions at middle elevations, and subalpine conditions on the highest peaks.

Of about 1350 flowering plants native to the Canary Islands, some 440 are found nowhere else, and about 250 of these occur only



on one island each. Furthermore, any one plant is likely to be confined to one altitudinal zone and may occur only in part of that zone. But among Canarian plants, Aeonium and its relatives (notably Aichryson and Greenovia) provide the most remarkable example of endemism or restricted natural occurrence. Of

some 59 kinds occurring in the Canaries, apparently 40 are known from only one island each, 10 from 2 islands each, 4 from 3 islands each, 2 from 4 and 2 from 5 islands each, and one from 6 islands. None are from all 7 islands. Aeonium itself includes 39 kinds, of which 33 are confined to the Canary Islands, 2 to Madeira (300 miles north of Tenerife), and 2 to the Cape Verde Islands (1000 miles to the southwest); the other 2 are African, one in Morocco (A. arboreum and A. a. atropurpureum) and one in Abyssinia (?). (By the way, Aeonium consists of all the common vowels and the middle 2 letters of the alphabet!)

The most attractive Aeonium is probably A. tabulaeforme, whose rosettes 6 inches to a foot across, are as flat as the proverbial pancake. On the northern coast of Tenerife, it commonly grows plastered on vertical cliffs, in some places quite abundant. The one bad point of this plant is that it rarely offsets. When Aeoniums bloom, that stem dies, so the sad collector <sup>gen</sup>ends up with no plant. <sup>in this case</sup> One of the commoner Aeoniums here is A. haworthii, which makes a domelike bush, a foot or two wide, of crowded succulent rosettes. The leaves are blue-grey-green, often with reddish edges. The flowers are a dirty white and the cluster does not form the honeycomb scented spiralled cone of A. arboreum. This plant also comes from Tenerife's north coast. A similar plant

from the island of Gomera is A. decorum which differs in its pink flowers and its narrower leaves, which on exposure are reddish. From Gran Canaria comes A. undulatum, which grows on cliffs and sometimes housetops at 1200 to 6000 feet elevation. This plant looks a lot like a commoner Aeonium (\*) except its rosettes are larger than the unidentified one and the flower stalk looks like that of A. arboreum where the common one's stalk is more like A. haworthii. I thought that this one might be A. canariense, but canariense has fuzzy rosettes. An Aeonium I have not seen is A. nobile, with solitary short-stemmed rosettes about 2 feet wide of rather heavy leaves and a flat cluster to 2 feet wide and with as many as 50,000 flowers. The flowers are unique among Aeoniums in having red petals, though the yellow anthers modify the general effect in the direction of orange. \*cuneatum?

Similar in appearance to A. lindleyi are the Aichrysons. They live for only 2 years, but are supposed to seed readily. The Greenovias are tight little rosettes when they are dormant in the summer. Their common name is Irish Rose.

Other succulents from these islands include Senecio kleinia, Ceropegia fusca and Ceropegia dicotoma. The Senecio when active, looks like a sea green little palm with its unusual long thin leaves. The two Ceropegias are similar in appearance with their one inch in diameter stems. C. dicotoma has yellow green stems and green yellow flowers while C. fusca (rarer) has chocolate brown flowers and brown stems that become chalky.

I have saved the "star" for last. This is the dragon tree or Dracaena draco. Dragon trees grow readily from seed. The young leaves are edged in red. Plants do not branch until they flower, which can be a long wait-up to 30 years or more from seed. Günther Kunkel relates that the plants coming from La Palma, Madeira, and the Cape Verde Islands branch at the base while those from Tenerife and Gran Canaria branch higher up. One can compare the selection that we have in our desert garden in Balboa park. My plant bloomed about 4 feet from the ground so it must be of the former group. The largest known D. draco was measured to be 75 feet tall and 18 feet in diameter.

#### REFERENCES:

Lyons, Gary, In Search of Dragons or The Plant that Roared, Journal CSSA, Vol. XLVI, Nov.-Dec. 1974, pp. 268, 275, 280.

Moran, Reid, Aeonium undulatum, California Garden, Vol. 68, Jul.-Aug. 1977, pp. 116-117.

Encyclopedia Britannica, Vol. 4, 1971, p. 765.

Map: National Geographic, Atlas plate 55, August 1946.

QUAIL GARDENS

Audrey Johnson

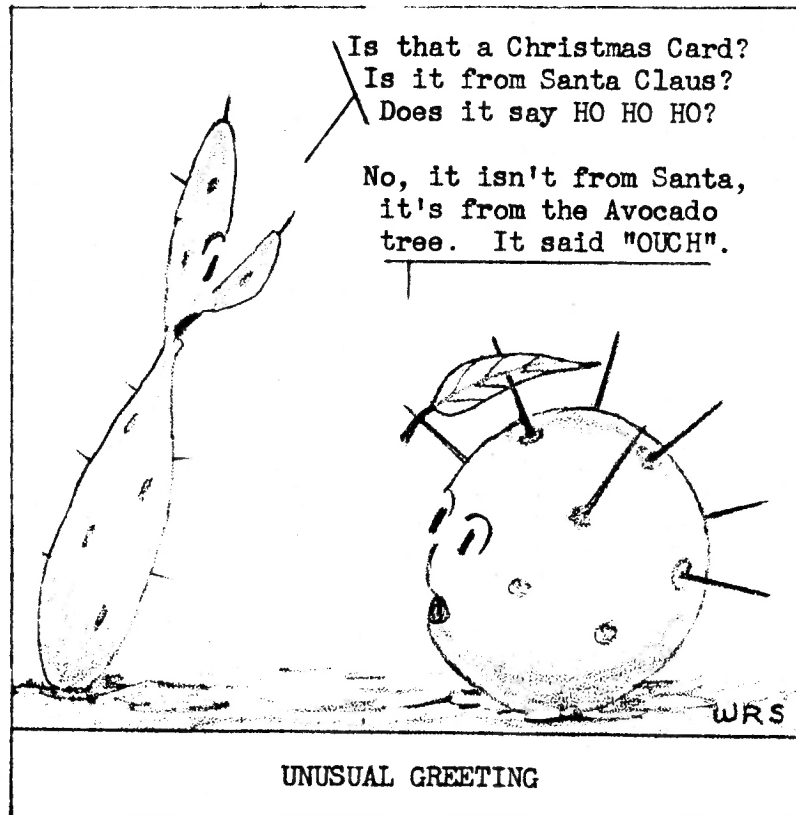
Many of our members who attended the "Christmas in Flowerland" Festival and Bazaar at Quail Gardens, just before Christmas, will be aware, I'm sure, of the huge success of this year's Sale.

On behalf of the rest of the Trustees of Quail Gardens Foundation, therefore, I would like to give heartfelt thanks to those of you who helped and participated in any way whatsoever in this happy event. The net profits from the Bazaar were, I believe, in excess of any we have acquired before, and should more than take care of the expenses of the upkeep of the Gardens for many months to come. Since this is what we were all working for, we couldn't be happier with these results!

And so - until I start my Publicity Campaign (in February) for our big Spring Plant Sale - I would just like to say, again:

"Thanks a million to all of you, and - please do it all again in May!!"

Audrey Johnson  
Publicity Chairwoman  
& Trustee  
Quail Gardens Foundation,  
Inc.



PLANTS-PCTS-SUPPLIES

Gerald Dice

ACTIVITIES

Martin Mooney

Club activities for 1977 were bus trips to Anza-Borrego, three north county nurseries and the annual picnic at Taylors. Fortyseven people visited Anza-Borrego, thirtyeight the nurseries and a whole lot met at Taylors Cactus ranch. Detailed descriptions of the 23 April trip and the 24 September trip appeared in the August and November "Espinas y Flores". A partial club activity thoroughly enjoyed by all the participants was the week long convention in mid May of the "Cactus and Succulent Society of America, CSSA. Twenty club members drove to Tuscon from San Diego. The next convention date to remember and plan for is May 1979; the fiftieth anniversary of CSSA will be celebrated at the birthplace of the society, Pasadena.

Plans for 1978 are in the formative stage and need your input. Possibilities are:

- March- Overnights to Santa Barbara, Tuscon, Tecate-Ensenada-Tijuana. One day trip to Anza-Borrego or to Lucerne Valley (Tegelbergs)
- April- Visit member gardens.
- May- Bus trip to U C L A and Huntington Gardens.
- June- Open House And Show.
- July 4 Bus trip to CSSA Annual Show .
- July 8 Annual picnic.
- August Visit member gardens.
- Sept.9 Monthly meeting held at Quail Gardens.

The only way that your favorite activity will be included is if you let us know what you want to do; please ! let us hear from you.

EXHIBITS

Warren Buckner

Our annual show and open house, the Southern California Exposition (Fair) and exhibits at the Wild Animal Park have been covered in various issues of "Espinas y Flores".

The open house and show for 1978 will be June 3-4, start grooming your plants and making plans to hang a perpetual trophy in your house; Joan, Floyd, Lee, Rick and Betty have had them long enough.

We have the usual problem with our Fair Exhibit, we need an overall chairman, exhibit chairpersons, plants and helpers. My recommendation to the Executive Board will be "No chairman, no fair exhibit"; we must have an overall chairman by the March meeting. Anyone willing to help please give me a call or sign up at the monthly meeting.

John Pasek has been doing a heroic job with various exhibits at the Wild Animal Park with help and excellent exhibits from Rick Latimer and the D'Atillios for the "Beauty and the Beast" show. John too, can use some help: give him a call.

As of December 2, 1977:

Total Purchases (1977) .....	\$2,236.87
Total Sales (1977) .....	<u>\$3,245.91</u>
Net profit .....	\$1,009.04

These figures include the Open House sale (June), all auctions, and plant sales by members at the meetings, in addition to sales from the Plant Sales table. This does not, however, include the sale or auction of plants from Dr. Radwin's estate.

At present the Committee still has a large supply of plants and other supplies on hand, ranging in price from 25¢ to \$13.50 and including:

- 4 flats of assorted 2" cacti & succulents (Tanque Verde)
- 1 flat of Lithops (2") (Tanque Verde)
- 2 flats of specimen plants in 5-6" pots
- 11 flats of misc. plants (mostly common varieties)

We also have an assortment of pots, fertilizer, and a large supply of plant labels. The stock on hand is, for the most part, representative of the merchandise sold throughout the year.

At this time, we have no plans to make any significant changes in our operations during the coming year. At today's meeting we are distributing questionnaires which we would like the members to fill out and return to us, either today, at the January meeting, or by mail if they wish, so that we may have their input as to any changes they would like to see and/or any comments or suggestions they may have.

AFFILIATE DIRECTOR - PUBLICITY

Betty Athy

The Corresponding Secretary is responsible for publicity and is the Affiliate Director to C S S A.

This year publicity has been announcements in the local newspapers about forthcoming meetings and sending announcements to several magazines concerning our show and open house in June.

The Affiliate Director submits a bi-monthly report to C S S A on the programs and activities of our society. This report is published in a newsletter, "The Affiliate Reporter", compiling reports from all the affiliated societies and C S S A. "The Affiliate Reporter" copies are kept in our library and are available for checkout or browsing at our monthly meeting.

Cactus-of-the-Month

Dr. Ronald E. Monroe

Annual Report - Conservation

Dr. Ronald E. Monroe

Most of the past year was spent in making contact with individuals of allied organizations to determine what the problems are and where our emphasis should be. Contacted were: Dr. John D. Donald, President of I.O.S.; Mr. Gary Lyons, Conservation Committee of the Cactus and Succulent Society of America; Mrs. Katherine MacDonald, Conservation Committee, Palomar Cactus and Succulent Society; and Mr. R. Mitchell Beauchamp, President, Native Plant Society.

During the course of the year, Mr. Lyons invited me to join the Conservation Committee of the Cactus and Succulent Society of America and I accepted.

Another aspect of activity this past year was spent in informing the membership about new laws affecting the national and international trade in succulent plants. Thus, the Convention on International Trade in Endangered Species of Wild Fauna and Flora and the Endangered Species Act of 1973 were fairly extensively reviewed in several issues of "Espinás y Flores".

The direction that I believe we, as an organization, should take is:

- \*\*\*
1. To adopt the I.O.S. Code of Conduct (and live by it!).
  2. To concern ourselves with habitat management to the extent that rare or endangered species of succulents are protected in situ or to protect pristine environments such that plants may be observed or studied in habitat.
  3. Bureaucratic contempt for a single letter from any organization (unless from some well-known national unit such as a union) is well documented. Therefore, our collective efforts must be supported by individual personal letters (assuming the membership feels strongly in favor to act) to agencies concerned for maximum impact (numbers of letters bring quicker action).
  4. Too, I feel rather strongly that we should not be "environmentalists" saying no to everything. Rather, a balanced conservation program suited for growth, recreation, scientific study and plant protection should be our concern.

You will be kept apprised of my efforts on the national and international level as events occur.

\*\*\* The bylaws adopted 10 December, 1977 read as follows:

"to foster adherence to a Code of Conduct for Collectors and Growers as recommended by the Executive Board and approved by the general membership"

My efforts on this committee have been active only recently; therefore, Tony D'Atillio will review the 1977 highlights.

The Cactus-of-the-Month for 1978 was prepared some time ago and submitted to the Johnsons for their inclusion in the January "Espinás y Flores"--I was unaware of the "verbal report to the membership" at that time.

I am aware, however, that this thing we refer to as "the hobby" means a multitude of different ideas to different members of our society. To some it is a challenge to grow plants to a peak of perfection, to others it is a means of "showing off" at a plant show, to others it means "the only one on the block with one", to others it means "the biggest and the best", to others it means in-depth study, propagation for dissemination to others, and thus, the protection of rare and endangered species. Regardless, the hobby is therapy to all and in that regard, quite priceless!

Therefore, the Cactus-of-the-Month articles should be balanced among as many aspects as possible: technical data, geographical distribution, propagation, pest protection, etc.

But, the name of the committee is education. For that reason, I believe there should be a balance between popularly-grown plants and those that are either hard to obtain (rare) or those that are simply not well known or appreciated. After all, even the smallest of plants have their place in nature and deserve study and appreciation.

I think that the time of presentation should be unaltered; that is, at the beginning of the meeting because some flowering plants have a tendency to become inactive in artificial light and undergo flower-closure before they could be discussed should they be shown later.

The plants chosen for the Cactus-of-the-Month for 1978 (beginning January and none for July) are: Turbinicarpus, Oreocereus, Notocactus, Coryphanta, Lobivia, Frailea, Parodia, Uebelmannia, Melocactus, Gymnocalycium and Your Favorite Cactus.

Succulent-of-the-Month

Rick Latimer

The report is pretty well summed up in the list that will be published in the January issue of "Espinás y Flores".

I do not favor repeats but instead attempts toward variance so no fixed structure can be stated as far as common/rare, technical/non technical, genera/other categories (non taxonomic) etc. My articles have not been too cultural because I do not know that much, Madelyn provides it in her talks; and I feel the same as Glass and Foster, Blecks, and others who hate to repeat the similar sounding cultural information all the time. I plan to provide one sketch per article; future articles will be longer rather than shorter.



ANNUAL REPORT - EXCHANGE TABLE

1977.

Ione Hubner

As we all know, the exchange table was established for the sharing of material pertaining to cactus and succulents. Each member bringing an item for the table receives a numbered ticket for the drawing later.

I'm sure that everyone who has participated in the exchange activities this past year has at least a few choice of some new specimens to show for it. The quality and quantity of plants and cuttings brought in this year has really improved incredibly. There is always something for new members just starting a collection to the more advanced collector.

We greatly appreciate the effort members have made to either put their contributions into pots, bags, etc. or to bring in dirt free items.

A suggestion was made a short time ago to ask all members, when their number is called, to make one selection only and then be seated. This gives each member an opportunity to get a better choice. After all numbers are called the rest of the donations are available on an open choice, and there are always a number of plants for each person.

I feel that some of you may have some suggestions for changes or improvements in this table, and ask that you either make them known after this meeting or send them to Warren or me this coming week.

Harriet Sopp, Frances Johnson and I have all enjoyed the year, and without their help it would have been a disaster for me.

And if any of you would like to volunteer to help in this activity during 1978 please let us know.

HISTORIANS ANNUAL REPORT

Rick Latimer

PAST YEAR: Received the early records from past Historian, Ruth Richardson. The old book needed renovation and reorganization so I replaced it with what I call Volume One ( 1961-1966 ). This book begins with a list of the Charter Members and ends with 1966 because:

The book was full.

There was a scant amount of material from the years 1967-1969. I assumed that Ruth had more material from these years so have not begun Volume Two; however, this seems to be all that was collected in this era. I have not yet received the materials from 1970-1976.

I have been collecting published articles, Espinas y Flores, meeting and Board Minutes, etc. for the year 1977. These have not been arranged since the volume number is uncertain. I expect to receive from President Buckner photographs of 1977 activities when I get to 1977.

FUTURE PLANS: I plan to make copies of materials in Perlso Lewis's Files that are missing from the History File and appeal to other veteran members for additional material. This appeal will be via a series of articles in Espinas y Flores on club history.

I have received a few items that are pre club (pre 1961). This suggests the possibility of a Volume "Zero" consisting of two categories of material:

Activities of Club Members of the pre-club era.

Pre-club clubs. For example, Betty Woolrich has mentioned material in her possession from pre-World War II club activities.

The History Volumes will be available for examination at the monthly meetings but will not be available for checkout since they are irreplaceable.

LIBRARY

Edith Werner

Books of the S.D.C.&S.S. library are available for checkout by members at the monthly meetings. Presently our library has 375 books with multiple copies of the more popular books and a complete set of bound "Cactus and Succulent Journals" of the C&S.S. of America. Magazine or journal subscriptions available for checkout are "Ashingtonia", "A.S.P.S.", "C. & S. Jr. of America", "National C. & S. Jr." (England), "C. & S. Jr. of Great Brittan", "Mammillaria Jr.", and "Calif. Native Plant Society Jr."

During 1977 530 books were checked out by members; an average of 53 per meeting ( ten months available for checkout) or a little less than half a volume per attendee. We have added 18 books this year with an additional 5 on order. Total expenditures for 1977 is \$441.70 for new books, journal subscriptions and binding.

The above are statistics. Much more important is whether you are getting the books and information you need and want. You can help by suggesting books, journals and services (this I would appreciate).

Regalement Committee Report

May Andrews  
Pat Elkington  
Wanda Hulshizer  
Katherine MacDonald  
Ruth Penprase

Regalement: "Entertainment, as with a feast."

Committee: "A group of people named to do things for a larger group."

Webster never mentions dishpan hands; cutting, sorting and arranging refreshments; warm frosting running down the wrists; or making oral reports.

The duties of the Regalement Committee are to purchase supplies necessary for refreshment breaks, preparation of beverages, setting up tables, serving, and kitchen clean up.

Sign-up sheets are passed around at the monthly meetings to solicit donations of snacks every month - hopefully from every member at least once during the year. A few days before the meeting, volunteers receive a "reminder call" that they have signed up for that particular meeting.

A donation plate is placed on the refreshment table at each meeting for contributions to defray Committee expenses. These moneys are turned over to the Treasurer before the meeting is adjourned. (For an account of income and expenses this year, please check with Russel Evans, Treasurer.)

We have had good cooperation this year - donors and workers - and you all deserve a big thank you.

Members are again reminded to bring refreshments in disposable containers and, if possible, ready to be served. It is much easier for you to slice and arrange one tray than for 2 or 3 people to slice, transfer and arrange 8 to 10 food donations, while also trying to prepare beverages, tables, etc. Your cooperation in this instance means that we in the kitchen have time to look at the bragging, sales and plant exchange tables - and do some socializing.

If you have any comments, suggestions or criticisms, please let me hear from you. There will be a comment sheet passed around with the sign-up sheet. Feel free to doodle.

Thank you again for your help and cooperation.

May L. Andrews  
Chairman

PROGRAMS

Tom Hamecher

We have had a wide variety of programs in 1977, from a cultural panel of local experts thru various movies, slide shows, a no show, and a couple of auctions. All in all a full year with the details in "Espinaz y Flores". Special thanks to our local members, Joan Johnson and Floyd Gable for memorable programs and to the cultural panel of Lee Phelps, Dan Mahr, Ron Monroe, Shirley Berry, Joan Johnson and Gerald Dice.

For 1978 we have Gary Lyons in January (See program in this issue) and the following suggested programs:  
Brian Lamb ---EXOTIC Collection (Brian plans to be here in 1978)  
Victor Turecek-South American Cacti  
Peter Sharp---Mamillarias  
Joyce Tate ---Indian uses of native plants  
Reid Moran ---Baja explorations  
What type of program would you like ????

RECEPTION

Periso Lewis

We are very proud of our membership and ask everyone to sign in at each meeting. Edith Billmeyer and I are at the door and ask you please to register before you enter the room so you won't forget.

I realize a lot of things go on and at times can be confusing. In order to keep you abreast of things and to answer your questions there are several members who wear a blue host/hostess badge who are always eager to help.

If you have any suggestions or ideas to better our club and our relationships we would appreciate it; it will help you too. For instance, I prefer certain plants over others and know many of you do too. Well getting acquainted with others we can exchange plants and ideas about our favorites.

We have printed name tags that can be purchased for \$2.00, or would you prefer another type of tag? Also, do you enjoy our method of introducing new members and visitors? Please give me your comments and opinions; I'm always at the door. We are a great club but there's always room for improvement.

SAN DIEGO CACTUS & SUCCULENT SOCIETY OFFICERS

PRESIDENT	H. Warren Buckner	1744 Englewood Drive Lemon Grove, Ca. 92045	469-1391
FIRST VICE- PRESIDENT	Thomas Hamecher	996 Terrace Crest El Cajon, Ca. 92020	440-6245
SECOND VICE- PRESIDENT	Gerald Dice	3354 Mohican Avenue San Diego, Ca. 92117	276-2589
RECORDING SECRETARY	Doris F. Rake	4410 38th. Street San Diego, Ca. 92116	282-1722
TRESURER	Russel Evans	3115 Nile Street San Diego, Ca. 92104	284-5859
CORRESPONDING SECRETARY	Elizabeth Athy	3990 Apore Street La Mesa, Ca. 92041	469-7647
IMMEDIATE PAST PRESIDENT	Martin L. Mooney	97 K Street Chula Vista, Ca. 92011	427-6796

BOARD OF DIRECTORS

One year term:	John Pasek and Perlso Lewis
Two year term:	Shirley Berry and Julianne Rice
Three year term:	Joan Johnson and Richard Latimer

COMMITTEES

ACTIVITIES:	Martin L. Mooney
EDUCATION:	
CACTI:	Dr. Ronald Monroe, and Anthony D'Atillio
SUCCULENTS:	Richard Latimer and Madelyn R. Lee
EXHIBITS:	
FAIR:	Tom & Marcia Hamecher Richard Latimer and Elizebeth Athy
OPEN HOUSE:	Julianne Rice Edith Werner, Pat Mooney and Helen Hegyi
LIBRARY:	Russel Evans
MEMBERSHIP:	Gerald Dice
PLANTS & SUPPLIES:	Tom Hamecher
PROGRAMS:	Audrey & Geoff Johnson (Phone; 745-5773)
PUBLICATION:	Perlso Lewis and Edith Billmyer
RECEPTION:	May Andrews, Pat Elkington, Nancy Hulshizer, Katherine McDonald, and Ruth Penprase.
REGALEMENT:	
HISTORIAN:	Richard Latimer
AUDIT:	Paul Johnson and James Berry
CONSERVATION:	Dr. Ronald Monroe
PLANT EXCHANGE:	Ione Hubner, Harriett Sopp and Frances Johnson
REPRESENTATIVES:	
San Diego Botanical Garden Foundation	- Rose D'Atillio
San Diego Floral Association	- Verna Pasek
Quail Botanical Gardens	- Audrey Johnson
Balboa Park Desert Garden	-

The San Diego Cactus & Succulent Society is open to all persons interested in growing Cacti, Other Succulents, and Exotic Plants.

Dues are \$6.00 annually; Single copies of Espinas y Flores are \$0.50.

Meetings are the second Saturday of each month, 1:30 p.m. in Room 101 of Casa del Prado, Balboa Park. (Exceptions noted in Espinas y Flores.)

Executive Board Meeting after the General Meeting.

DEADLINE FOR FEBRUARY ISSUE ..... JANUARY 23rd. PLEASE!

AND SO TO BED...30