

ESPINAS Y FLORES

RELATIVE to OUR SOCIETY

What does the history of South America have to do with cactus?

One might well ask what does sipping Margaritas in Tiajuana have to do with cactus...but as we know, both broaden the knowledge of the cactophil, to say nothing of his or her delight in a world that contains a bit of everything, all overlapping...including cacti and succulents.

One might well wonder what Women's Lib has to do with ESPINAS y FLORES...or philosophy...or ecology... Ah, ecology can be applicable, you say...follow thread, as tenuous as it may become...all things under the Sun are related.

Relative to our Society in particular, a statement from SAND & SOUL sources reveals that the garden plans have been tentatively approved — pending certain adjustments and changes to tailor dreams into realities. The date for starting can only be said to be eminent. Other projects have priority at the moment...Our planting date hinges upon completion of these other projects. Meanwhile, ours is to stand at the ready — but hang loose. Let us make sure our Committee is prepared with tools, workers, plants and funds to do the development right.

We cannot expect the City to develop this garden for our special interest. After the initial stage of water, walkways, grade and site preparation — as well as some sizable specimen plants for background and continuity — the rest will be up to us!

Truly, then we can GROW with SAN DIEGO!

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FLORIDA CANYON

Oct '71

— Helen Witham

At the present time no money has been budgeted for any development in the Canyon, nor can any be allotted until there is something to budget for. Richard Bowen puts it this way: "We can't ask for capital outlay to develop an idea in somebody's head." After the conceptual plan is approved, work can be scheduled and will proceed by steps. A project of this size will necessarily be a long time growing.

It has been a long time coming. For all the years of Balboa Park's existence this has been only a blank space on the map. The Bartholomew Plan, adopted in 1960, devoted just a few lines to Florida Canyon, recommending that it be preserved as a natural area. This rather vague designation implies low use and low congestion — nothing that would result in shoulder-to-shoulder people or bumper-to-bumper automobiles. To my mind this is the ideal location for a botanic garden featuring California's native plants. Here it will be a logical extension of the science-education complex in the Park — our Zoo and our several museums. This land is already a part of our public park system and as such it will be developed in one way or another. The time to decide the direction of development is now, and the NEED is here.

Our National Environmental Education Act calls for improved curricula in the field of environmental education. A curriculum must have content; there must be something to study and a place to study it. Central to the study of environment is study of the plant world, for plants are basic to life on land. We cannot live without them. A botanic garden established here by combining natural growth and plantings of native trees, shrubs, and wildflowers will give us a center for study of environment, a core from which our understanding of Nature will expand in widening circles. Here, indifference can grow into acquaintance and acquaintance can grow into concern.

"Our urban population does not understand the outdoors." — State Park Director Wm Penn Mott, in a recent discussion on the educational value of natural areas.

Of course they don't. How can they understand the outdoors if they never see a wildflower growing or if they never see a stream that is not running down a concrete gutter into a storm drain? Outdoor experience is not to be had indoors; it must be got outdoors.

How can anyone ever see butterflies unless he first sees a bush full of caterpillars that nobody has sprayed with poison?? We don't need worms in our lettuce, but there are places where we do need them.

Here in our botanic garden. This chaparral on the east side of the Canyon is just such a natural area. It is an educational resource without parallel in the center of the urban area, one that we can neither make nor fake. Here we can keep, for future reference, one small sample of natural environment.



A NOTE ON MAMMILLARIA THERESAE, Cutak, 1967

A NEW PYGMY CACTUS FROM MEXICO

By Anthony D'Attilio

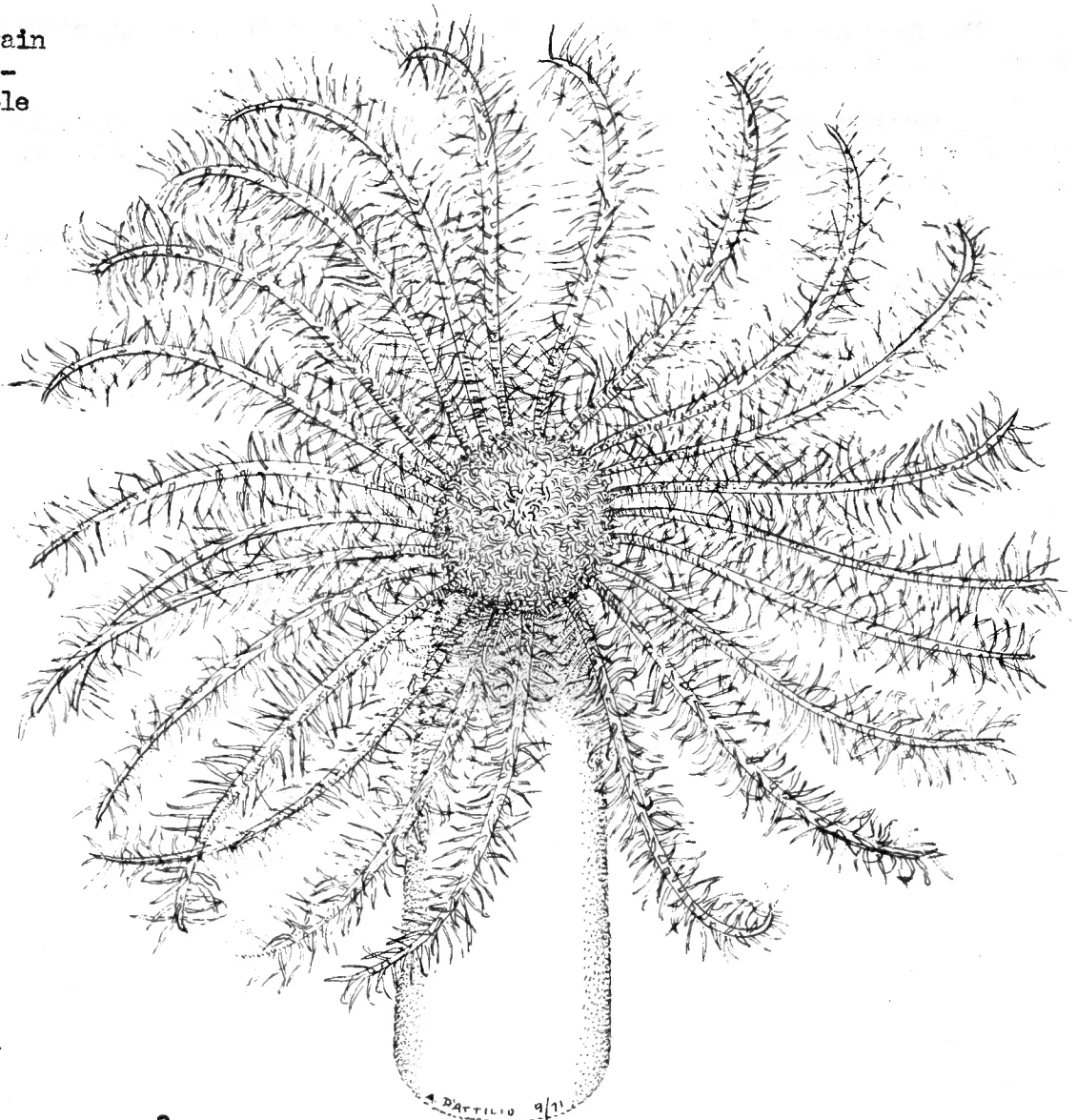
M. theresae, type from Durango, Mexico, about 7,000 feet elevation, collected by Ed and Betty Gay, May 1967.

The rather full description of the plant and flower cited above, both in Latin and in English, is enough to identify this cactus species. However to collectors, or perhaps to myself, one knows little of these miniature plants unless one has the advantage of examining them with an excellent microscope of professional quality. I have recourse to such studies of minute subjects in the course of my work on microscopic details of seashells. Many of the enormous number of marine invertebrate animals are very small to begin with and the details of form can be studied only under high magnification. Examination of this sort reveals some of the splendid and unforeseeable beauties of the world of the microscope.

Out of curiosity, both scientific and aesthetic, I looked at a little head of M. theresae. This impelled me to enlarge, at least for my own satisfaction, the description of a single tubercle from this cactus with its crown adorned by the feathery areole.

Going back again to marine invertebrates, most people have seen still photos or movies of feathered or serpent sea stars. The many graceful arms are covered with many symmetrically arranged spines.

Such forms are also found in certain sea anemones. flower-like animals. The analogy might fit the areoles in our pygmy cactus, a sea of areoles! I have also thought of these beautifully crowned areoles as a field of white feathery-petalled daisies and here
(overleaf)



A NOTE ON MAMMILLARIA THERESAE, continued:

perhaps the analogy is even closer and more appropriate. The tubercles are round and long, not varying appreciably in length. At their base the tubercles are set tightly together and spread apart towards the areole tips, like spokes coming out of a hemisphere.

The areoles with their delicate petal-like spines crown the tip and consist of approximately twenty-four, all lateral. The center of this flower-like structure has a circular puff of wool made of uncolored, translucent, short, ribbon-like strands, curled and twisted erratically.

The spines are also translucent, curling gracefully this way or that way, and ornamented with short, symmetrically arranged strands of apparently the same "saran-wrap" material as the woolly center.

The plant body is colored a vivid grass green but may vary to olive green, and is translucently granulose in its upper layer. The extremities of the tubercles have the flower-like areoles overlapping due to their proximity in the growing portion of the plant body. The older tubercles are spread apart to a greater extent at the growing tip so that the areole may be clearly seen separately.

The drawing included herewith is, hopefully, a further contribution to an appreciation of the subject.

Altogether this little trip into the world of the microscope, in company with our delightful *M. theresae*, has been an experience for me and I would wish worth relating to my fellow lovers of cacti.

Ref: Cactus and Succulent Journal, Nov.-Dec. 1967, pages 237-241, and the same Journal, Jan.-Feb. 1969, color photo on back page of flowering plant.

CACTUS OF THE MONTH
GYMNOCALYCIUM SAGLIONE

Floyd Gable

GYMNOCALYCIUMS (gymnos for short) are commonly called "chin cactus" which refers to a protuberance just below the areole.

The genus GYMNOCALYCIUM is native to South America. It is found in Argentina, South Brazil, Uruguay, Paraguay, Bolivia and Patagonia. It usually is found in grassland up to elevations of 3,000 feet but a few species are found at higher elevations, sometimes up to 10,000 feet.

GYMNOCALYCIUM SAGLIONE is the giant of the gymnos. It has been known to grow to a diameter of fifteen inches. The species forms large, orbicular, bluish-green plant bodies with many ribs. The tubercles are very large, in some instances up to one and a half inches in length--up and down.

Spines grow in an oval ring around the crown of the tubercle. The spines are dark brown or black and up to an inch and three quarters in length. Younger tubercles have fewer spines.

Flowers are white or pale rose with very short tubes and they are produced on mature plants. G. saglione does not produce flowers as large as or as often as or as pleasing as other gymno species.

G. saglione is native to Argentina where it is found on the northern and western sides of the Andes.

Another gymno which attains large size is G. spegazzinii.

When grown in full sun G. saglione may acquire a beautiful reddish brown body color.

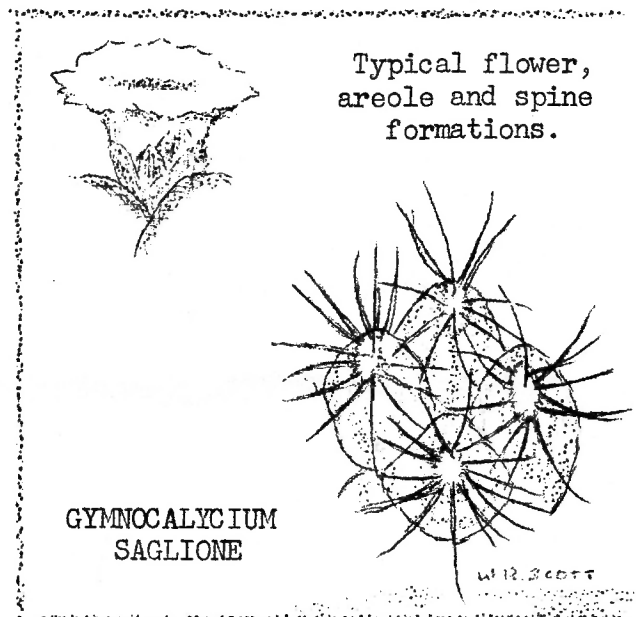
Culturally, the gymnos are easy to grow. They are quite free flowering as a rule and in our area they will flower periodically for a period of several weeks.

Most gymnos will grow to maturity in a five-inch pot. But if one doesn't want his foot wide G. saglione or G. spegazzinii to appear underpotted, he had better arrange to grow them in correspondingly larger pots or in the open.

Gymnos do well in the usual, light, well drained cactus soil mix. They need very light watering in winter, but they need generous watering about twice a week during their growing and flowering seasons.

Some of the more popular gymnos in cultivation are:

G. anisitsii	G. baldianum	G. bruchii
G. castellanosii	G. denudatum	G. gibbosum
G. hossei	G. lecanum	G. mazanense
G. mihanovichii	G. monvillei	G. mostii
G. quehlianum		



Typical flower,
areole and spine
formations.

SUCCULENT OF THE MONTH

ALOE BELLATULA

--by Floyd Gable--

ALOE BELLATULA is a native of Madagascar. It well deserves the specific epithet "bellatula" which means little beauty. It is a charming little aloe and it probably has the prettiest flower scape of all the miniature aloes. The long graceful racemes of buds and flowers are a delicate coral red and the simple inflorescences are a foot to a foot and a half tall. They carry about thirty pendulous flowers.

Because of the suckering habit of A. bellatula, it bears a number of inflorescences during the flowering period and it makes a feautiful display.

Originally the species was discovered by Professor Millott, director of the Institute Scientific de Madagascar. It has been more recently collected by Dr. Werner Rauh. (Note below) Culture of miniature Madagascar aloes is quite different from the more robust South

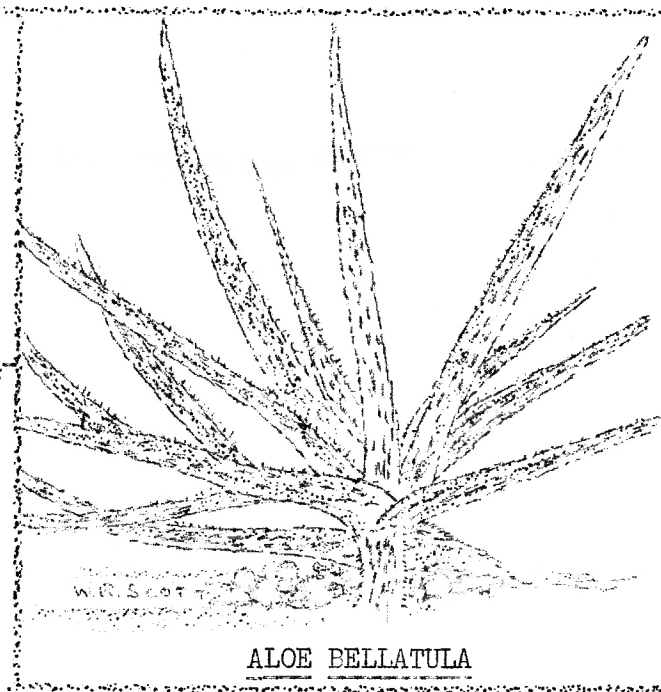
African species. They require a very porous, well drained soil. They have been known to thrive in a 50-50 mixture of peat and coarse sand. They are very sensitive to frost and require a minimum winter temperature of 50°. A. bella-
tula grows and blooms well in pot culture. It may be grown easily to matur-

ity in a five-inch pot.
* * * * *

DR. WERNER RAUH RETURNING TO THE U. S.

Dr. Werner Rauh of the University of Heidelberg who spoke at our special meeting of October 22, 1970, is returning to the U. S, in October this year. He is scheduled as guest speaker by the CSSA at a meeting at the Arboretum in Arcadia on Sunday afternoon, October 17th, 1971 at 1:30 p.m. His subject will be "Peru". Dr. Rauh is a knowledgeable and interesting individual. His talk will reveal some unusual facts about the plantlife and topography of Peru. In view of changing policies in Peru, if Dr. Rauh chooses to expand upon his subject on other than Peruvian plants and its landscape, he could offer some very interesting observations on present day World politics.

Anyone interested in attending the CSSA special meeting in Arcadia on Sunday, Oct. 17th, please contact Scott at 296-6022.

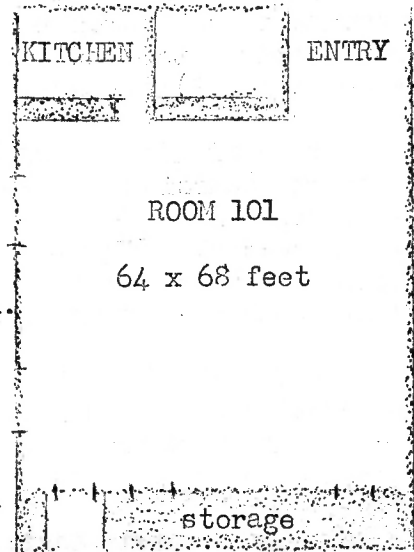


CASA DEL PRADO---report on
DEDICATION AND OCCUPANCY
 (As of Sept. 10, 1971)

OCCUPANCY OF CASA DEL PRADO cannot commence until all construction work is completed and occupancy is authorized by the City. DEDICATION DAY (Let's call it "D-Day") will be one of three Sundays--November 21st, 28th or December 5th. Hours will be from 11:30 a.m. to 5 p.m.

SPACE ALLOCATIONS: The large room on ground level in the southeast corner of the building (see sketch) will be primarily for use by botanical clubs and groups, but not necessarily restricted thereto. California Garden lists approximately sixty such groups in San Diego County. Groups now using the Floral Association Building for meetings probably will continue to maintain present schedules in Casa del Prado in 1972 but on a reservation basis. Full information on reservations and schedules will be forthcoming from the San Diego Botanical Foundation in the near future. The San Diego Floral Association, Mrs. Louis Kulot, President, now handles scheduling of the Floral Association building thru Mrs. Penny Bunker of California Garden. She has submitted current club schedules to the Recreation Department for its information. The lease on the Floral Assoc. Bldg. expires on December 31, 1971, at which time scheduling will pass to the Recreation Department which will be setting up an office in Casa del Prado.

Our last meeting this year, December 4th, could be in Casa del Prado (Room 101) but we don't know yet. It all depends on D-Day. The program for our December meeting is in a state of limbo and must continue in such state until decisions come down the ladder from higher rungs.



CASA DEL PRADO, ROOM 101

San Diego Botanical Garden Foundation is working on details and it on top of all current problems. Mr. Samuel W. Hamill is President of the Foundation, his term of office began with the September meeting. The Foundation has excellent leadership as well as a Board of 18 dedicated and knowledgeable Trustees. They represent a cross section of about everything in the world of plants. Casa del Prado has been under their watchful eyes from the beginning.

Nothing should be taken for granted. All space in Casa del Prado is available to groups whether or not they are affiliated with either the San Diego Floral Association or the San Diego Botanical Garden Foundation. Even tho it appears there is ample room for all needs of all garden groups, it is conceivable that two or three groups would like to use one space at one time. At other times space may go begging. Casa del Prado may be like our freeways---all of a sudden everyone is on wheels and going somewhere. We think the operation of Casa del Prado will be simpler and probably without casualties. Even so, scheduling is a MUST and it is coming up.

Some smaller clubs may not have a need for, nor will they be able to efficiently utilize the spacious meeting room 101 which measures 64 by 68 feet (4432 square feet, twice the floor space of our present meeting room). There are other rooms in the complex which may better suit the needs of small groups. But all groups must keep in mind the reservation gimmick.

D-DAY, whichever Sunday it may be, will be a public event and an historic occasion in San Diego's botanical circles. Many groups are interested in Casa del Prado and the opening, including choral, dance, garden and adult groups. All will participate on D-Day and each will do its thing.

---continued next page

CASA DEL PRADO---continued:

FLOWER SHOW: Our part on D-Day will be to participate in the preparation of a flower show in Room 101. The room holds 52 tables, each 2 by 8 feet, arranged in a manner as approved by the Fire Department for reasons of public safety. A number of San Diego garden clubs will be having exhibits or displays. If 26 clubs take part, and there are 52 tables, each will assume responsibility for two tables. That sounds simple and fundamental, BUT some clubs will want more space and some may not be present. These details are being handled by the Flower Show Chairman, Mr. John Farleigh, Trustee of SDBGF whose address is 2217 Whitman Street, San Diego, telephone 295 5404. All arrangements pertaining to the show must necessarily be channeled thru Mr. Farleigh.

Our Exhibit Chairman is Wilson L. Wells, his phone number is 222-5141. When all organizational flower petals settle on the sod, WLW will be calling on our members for 1) Material and manpower in setting up X-number of tables; 2) Hostess and host panels to watch over the exhibits and answer questions from 11:30 to 5 p.m. on D-Day, and 3) Manpower to dismantle the exhibits and return them home.

The SDBGF is seeking hostess and host panels to function during open hours on hourly assignments, but it is our belief that the solution lies within the different Clubs. If each Club sets up and mans its own exhibit, the problem will be solved automatically. We probably wouldn't make very good hosts for Bonsai, Dahlias or Roses, but when it comes to cacti and other succulents, we can raise one good point after another in rapid succession--and ad infinitum.

TO THE KITCHEN: The only kitchen in Casa del Prado adjoins Room 101 on the northwest corner. Facilities therein are ample and modern, no doubt much more advanced than most of us have in our homes. IT IS THE VERY LATEST. Goodies or tidbits should come rolling out of the kitchen on rolling trays at any given time by the press of a button, but it will not be that simple. As things now stand, kitchen usage is not on a priority basis, that is the Club using room 101 at any given time does not have prior use of the kitchen at that time. There could be other groups meeting in other areas who had simultaneous kitchen ideas.

The kitchen is ample and spacious enough for several groups and if problems should arise, there may be two solutions--the drain in one of the sinks or diplomacy and good fellowship. The latter has possibilities--who knows, maybe the goodies prepared by other groups (cooks) may be as good or even better than those prepared by Floribunda and her gang on each first Saturday. Our Club is open to and looking for good cooks, and/or ideas, even tho they may originate in the kitchen.

STORAGE: Storage areas adjoin room 101, one north and one south. The latter is approximately 50 by 10 feet. Use of storage areas is by request and assignment on a priority basis. Our Club was one of the very early ones to make such a request and it is on file. Some clubs may have overlooked this item--when the day of reckoning comes, there are limits even to space.

ATTENTION CLUB LIBRARIANS: Racks and shelves, preferably lockable and portable, must be provided by individual Clubs. A committee has been appointed by SDBGF to look into such matters and it appears some good and practical ideas are being hatched. When the committee makes recommendations, it would be well for all groups to respond affirmatively for reasons of appearance, convenience and cost. Although the plants and flowers of different clubs are vastly different, there's no reason why racks and shelving shouldn't come from one and the same matrix.

The ribbon you wear on D-Day as a participant and club representative will soon be a collector's item. You'll be glad you were present and took part in an historic occasion. ALL THE ABOVE TOGETHER WITH AIR CONDITIONING AND SUPERB LIGHTING.

Respectfully dedicated---

DOC Vaughan WRITES

Oct 71

"Lang May Your Lums Reek" is an old Scottish proverbio that means far more than the thirfty cotter envisions as the family nibble at a bit of haggis. The warmth of the peat fire does far more than dispel the gloom of mist and chill of night. The curling smoke carries upward into the damp air the charcoal so essential to good garden growth. Carbon purifies the air and carries to earth the carbon and oxygen and nitrogen molecules that are so essential to plant life.

The carbon radicals are ever searching with their four arms for something to marry and in the process form that which trees are made of, as are all things we eat — be it vegetable or animal. Nearly all power for our cars, trains and planes comes from fossil vegetation. Our lights that shine so brightly over our cities in iridescent colors had their beginning in carbon that was laid down eons ago and the threes that today hold back the snow-packs in the high mountains make water power possible.

Water is the hand-maiden of charcoal. For the lack of water at this time in our ephemeral existence the surface of the earth is FOURTEEN PERCENT desert — 56,000,000 square miles! This is 1/7th of the Earth's surface — and what's worse, the layer of SOIL over all the earth is about 8" if it were evenly distributed! On many places such as mountain ridges, deserts, and glacial areas there is NO soi.

There is something more to worry about since we cleared the forests, dammed the rivers, changed water flows and turned ruminant herds loose to pull the soil loose. Winds carried great clouds of fertile land away and deposited it in sea and lakes.

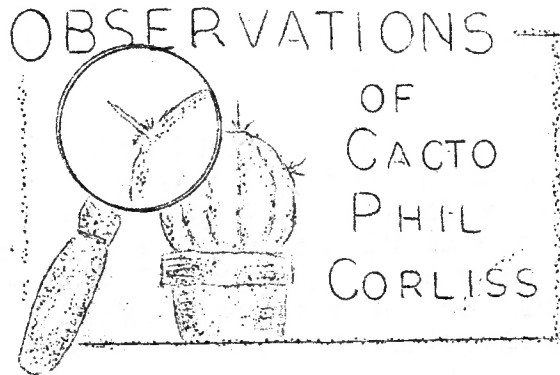
In the time of men the Sahara desert has grown until it covers one-third of Africa and is as large as all of these United States. Modern excavators are finding the ruins of once great cities. Forty-four percent of Australia — more than a million square miles — is useless and barren of all life except a few vicious snakes.

There are many other deserts which are really cancers, eating away at the land we shall so acutely need in the years ahead.

While off the coast of China I sailed for five hundred miles through the YELLOW SEA which in reality is the debris from the GOBI where Roy Chapman Andrews found the first dinosaurs and learned that all these reptiles were egg-laying creatures. Today a blade of grass has a cash value in the markets where meat is a priceless commodity to most Chinese. A rat is a luxury...the children consider a bit of hog gut as a tidbit.

We are today rushing pell-mell like Don Quixote and jousting against windmills trying to STOP pollution — save our ECOLOGY et cetera. Every "Crackpot" in political office has a cure, and in most cases his cure is worse than the cause.

This NON-BURNING of all farm prunings in the Fall of the year now permits all insects, mites, viruses, scabes et cetera to happily winter in peace — and meet the Spring crops when they are tender green. At times I think we are crazy...To deny returning to the soil cleansing charcoal and needed mineral salts...to bury infected wood, brush and plants does not make any SENSE.



I hope the Mammillaria Society will study the effect of fertilizer on the bloom of Mammillarias. We are told — and it is true — that the buds of Mammillarias will regress entirely if the plant is fertilized. But I have noticed that certain species, notably *M. zeilmanniana*, will continue to produce flowers even if constantly fertilized. I am also of the opinion that grafted Mammillarias are not affected by fertilizers. In 1972 I propose to check varieties of which I have more than one plant, by

withholding fertilizer from one group, and applying it regularly to the other. I hope some of you will do likewise and report to me your findings.

This month I want to discuss the problem of plant-and-shade. Regardless of what you believe to be proper for a plant, if it is thriving in its present location — be wary about moving it! On the other hand, if it is not doing well and you don't know why, try a position of different light.

I hardly need remind you, I am sure, that too little light will result in tall growth and little bloom; that too much sun will stop growth and flowering. If given too much sun, your cactus may actually burn — turn brown or yellow and die. Or it may just turn red and stop growing.

We know that, in habitat, really few cacti grow in full sun, among the exceptions being the "tree cacti" and the "barrels" — but even they usually begin life with some protection. Many globular cacti are found in the protection of shrubs. They grew here because the tiny seedlings needed protection from full sun and they also needed protection from being eaten or trampled. After generations of growing under protecting cover these plants became accustomed to less than full sun.

In cultivation, many cacti will not tolerate nearly as much sun as they did in habitat. This is especially true of cacti in pots, and is due to a combination of factors. There are no hard and fast rules. You must learn from experience how much sun each variety will take.

There are a few clues to the ability of plants to stand the sun. But there are so many contradictions and exceptions that you must be alert for bad reactions. In general, plants heavily protected with spines, hair, or wool will stand more sun than those not so provided. With succulents, BEWARE of SUNNY positions for DARK-LEAVED plants!

Do not move a plant from deep shade to full sun too hastily. Although it may be a kind that will tolerate full sun, the soft growth that was made in shade must be gradually hardened before it will stand maximum sun. The watchword is PATIENCE. Do not try to force growth nor bloom with too much sun.

It was surprising to see the difference in the plants we collected at the El Paso convention in habitat from the same plants we have grown as purchased from nurseries. In habitat, the spines were so much thicker, larger, longer, that you could hardly reconcile them to being the same varieties you have grown at home.

DID YOU KNOW? The tomato, native to South America, was taken to Europe by the Spaniards, thence across the Straits of Gibraltar to Morocco, back to Italy, thence to Germany, France and England. It was considered an aphrodisiac, was never eaten until it was carried back to the United States in the 19th century, because it was related to the "deadly nightshade" and thus thought to be poisonous! It was grown only as a decorative garden plant until, around 1830, it became an important food crop in North America! (from Lehnert's ODYSSEY of PLANTS) Botanically, it is neither fruit nor vegetable; it is a berry.

MAILBAG

Oct '71

Dear Mr. Buckner,

Check is enclosed for family membership of your Society. We enjoyed the exhibits at the Fair and realize how much work was involved but what a lot of pleasure you people gave to so many of us!

We are looking forward to the October meeting and the ESPINAS y FLORES paper.

Thank you sincerely,
Mary and John Pasek

Dear Ms. Klinefelter,

Thank you for sending the August EyF. I had not read it before but know now I will enjoy receiving your publication.

Enclosed is \$3 for one year sub.

Sincerely,
Barbara Hansen
(Crescent City)

"Paper" members are always welcome -- reminding us that revision of mailing list & by-laws are necessary to accommodate subscribing during the year, to keep our customers satisfied.

We also heard from the Sonoma, Napa Road Davenporta -- what a DEElicious! address... Marie reports that they are not related to Mrs. E. B. Davenportsof LaQuinta... the 'Dear Nibby' took away the sting from another DEAR SIR... Prof Lee H Bowker writes from Whitman College in Walla Walla, Washington - DEAR SIR: Can you send me the address of the Portland, Oregon C&S Society? I would greatly appreciate it. Sincerely, Lee Bowker. Well, sir, Mr. Bowker, sir, since sincere appreciation is what we like best -- Herewith, your desire:

Ms. Anna Heide - Oregon C&S Society
4943 Southeast 104th Ave-Portland 97266

We also have a sincere appreciation of an Honest Mistake and always feel one should find fun wherever...which is as good a time as any to mention that it's Patricia and NOT Janet Kennett...it is Martha Van Ness rather than Less and where else have we gone wrong? (Try to have something for everyone-- so there are mistakes for those who look--that's a joke, Nellie...WHEN are you going to give me the ROUND-ROBIN article? Billie Lucas is waiting, too...We hope that Robin Strate is feeling tiptop again...

REPORT from
CHAIRMAN of
NOMINATING*
COMMI TTEE**

A meeting of the Nomination Committee was held at the Cafe Del Rey Moro in Balboa Park at five pm on Thursday, 22nd of September, 1971.

A prospective slate was discussed and it is the desire of the Committee that a full slate will be ready for presentation to the Society for the November meeting.

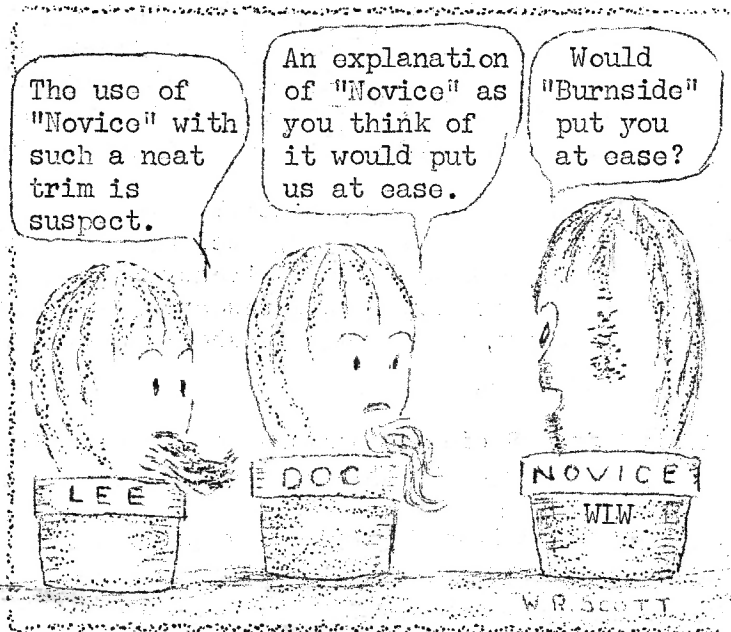
As per the By-laws, nominations will be called for from the floor at the November meeting. Final election will be at the December meeting.

Wilson Wells

The Loylands are concerned about a number of "old" issues of EyF addressed to LENA ANNE RICE which they found in their possession...did Lena Anne bring these for the Librarian or the Editor as we did once (and now again) plea?? (That's "old" like in collectors' items old.) This Editor does not have a complete file on hand nor the Librarian -- so please DON'T THROW THEM AWAY.

Hope to have a report of how many issues of the CSSA convention issue have been ordered from Scotty at \$1.00 per copy as noted in C&S JOURNAL of AMERICA. Our Walter is on the Board of "National" and represents us well.

FOR SALE and FOR GIVEAWAY until midNovember cactus & succulents. See Ruth Stanton - Phone #26-1466) 1858 Avacado Drive, Vista 92083.



TWO PROS AND A NOVICE

ADD THESE BOOKS to the LIBRARY LIST published in EyF in June, July & August of 1970

— Ruth Nelson

CACTI and SUCCULENTS	Rudolf Subik (2 copies)
CACTI FROM SEED	Edgar Lamb
CACTI of the SOUTHWEST	Del Weniger
CACTUS BOOK, The	A. D. Houghton
CACTUS COCK BOOK	Joyce Tate
CACTUS CULTURE for AMATEURS	William Watson (Reference only)
DESERT in BLOOM, the Southwestern	W. Hubert Earle
EDGE of a CONTINENT, The	Don Greame Kelley
FIRST FIFTY HAWORTHIAS	John W. Pilbeam
FLOWER COLOR DETECTOR -.....	Chart for describing flower colors
GARDENER'S BUG BOOK, The	Cynthia Westcott
GARDENS in GLASS CONTAINERS	Robert C. Baur
GROW CACTI	C. MARSDEN
HANDBOOK OF PEST CONTROL	Arnold Mallis
JOURNAL INDEX (38-year Index to C&S JOURNAL of America..	Charles Glass
LIVING WATER	Ernest Braun & David Cavagnaro
MAMMILLARIA HANDBOOK	Robert T. Craig (2 copies)
PRAGUE CASTLE	Karel Plicka
SAN DIEGO SKETCH BOOK	Bob Fasset
SILENT SPRING	Rachel Carson
SINCE SILENT SPRING	Frank Graham, Jr.
STAPELIADS in CULTIVATION	Edgar Lamb
STARTING WITH CACTI	Arthur Boarder
UTILIZATION of CACTI by the ORIGINAL AMERICANS	John W. Green

(Also, Volume I of JACOBSEN's three-volume set has been found.)

"SHOWS"

THE CACTUS & SUCCULENT SOCIETY of AMERICA has brought out a booklet called "Shows". It is an excellent authority on staging cacti and succulent shows — both for amateur and experienced individuals and groups. For the person who would like to have neat and attractive looking plants at home, this booklet offers good tips on grooming and staging plants. COPIES CAN BE OBTAINED for 50¢ each from Virginia Martin - 2631 Fairgreen Avenue, Arcadia, CA 91006.

— Perlso Lewis

SCIENTIST
HONORED

The scientific artist at the San Diego Natural History Museum, Anthony D'Attilio, was honored at the Fourth Annual Meeting of the Western Society of Malacologists recently convened in Asilomar, Pacific Grove, California.

The award was made to Mr. D'Attilio in recognition of his outstanding contributions to the study of mollusks. His scientific illustrations are well known throughout the United States and he has already had two museum exhibits, one in the San Diego Natural History Museum. His research is less well known to the layman but involves the shell murex, well known to shell collectors. (thanks for a news clipping recently received from Loylands)

(See pages 3-4)

MISSING from Society's inventory - BROWN BOOK containing Dec '66 (first issue of EyF) and COMPLETE FILE OF ESPINAS y FLORES for years 1967, 1968 and 1969.

WANTED: By Editor for files - copies of NOVEMBER 1970 EyF - not a single copy on hand. WANTED: Sophie & Oliver need Feb - Mar - May - June - July - Aug - Sep and Oct 1967 to complete that year. They are working on a complete file.

MORE MAIL

Sept '71
Oct '71

From our Treasurer doubling as membership-list keeper and mailing-label maker -
"Attached is an up-to-date, corrected, almost-in-alphabetical-sequence mailing list. Please don't try to justify it against anything - if there is a correction, I should have it. If I don't, why not?"

Seriously, this is to the best of my knowledge the status of the SD C&S- membership list at this date - 26 August 1971.

Warren "

	<u>Mailing</u>	<u>Number of People</u>
LIFE	3	3
HONORARY	3	3
SINGLE	97	97
FAMILY	53	113
	156	216
COMPLIMENTARY (in- cluding EXCHANGES)	31	Card-carrying Members
	187 labels	now 223 members (26 Oct)

(Actual count Oct = 192)

A few figures from the Post Office and facts. We mail EyF THIRD CLASS - as is only proper for books and other printed material weighing less than a pound - but I was surprised to learn that "bulbs, seeds and scions" fall in this category as well.

(12 pages = 2 ounces) first 2 ounces = 8¢ + 2¢ for each additional ounce
(6 pages = 1 ounce) 12 pages for 8¢, 18 pages for 10¢

When the wage freeze went on, postage increases were frozen as well so we have what's left of 90 days before an increase can be announced.

As of July 1st, 1971, the United States Post Office Department faded into history after nearly 200 years of service to the American people. Its place was officially taken by a new organization, the UNITED STATES POSTAL SERVICE, an independent establishment of the government.

SNAIL MAIL...to quote Goodman Ace in Saturday Review: "HAVE YOU BEEN able to detect that neither rain, nor snow, nor hail, nor all that other gloomy stuff, plus a hike in the price of postage stamps, has sped any couriers to your mailbox?"

We have taken the basketful of our papers to the main post office and sorting station on Clairemont Mesa and Ruffin Road at midnight on the Sunday we Print, the better to speed EyF to you...Once we were treated to a tour and looked upon the highly complex, mechanized system with conveyer belts and electronic rejectors et cetera...True enough, it works for San Diego mail -- but questioning members in La Mesa, Lemon Grove, Spring Valley and other points in the County, we found that the paper was not received until much later in the week and the Taylors in La Mesa were still looking forward to EyF the Saturday of the meeting. Obviously, then, it is the sorting at your local station and when it is given to your mailman that determines when you receive, not the date of mailing. ... There was a Sick Officer who is now retired and works for the Postal System who was amazed at some of the cumbersome management encountered - he said that our paper is considered "flat work" which more or less takes it out of the mainstream when it reaches your local post office ... EVEN IF IT WERE DROPPED AT EACH AND EVERY POST OFFICE ... depending upon the postal clerks doing the sorting and the mailman picking up his daily load ... Sorry about that, Anxious Readers.

NOTE FROM THE TREASURER: FAIR milage reports by individuals assisting at the Southern California Exposition are to be submitted to the Display Chairman, WILSON WELLS. Mr. Wells will collect, verify and submit the total milage to the Executive Board for determination of payment. DO NOT submit your mileage reports to the Treasurer; his responsibilities begin after Mr. Wells has determined the amount of travel and after the Executive Board acts on Mr. Wells report.

(Editor's Note: If memory serves, motion was made in 1969 that 3¢ per mile be paid after the first 100 miles.)

Warren Buckner

PLASTIC POTS vs. CLAY POTS There's a summertime disadvantage to growing plants in plastic pots. They are non-porous and soil in them heats up faster. In tests conducted by the Agricultural Extension Service, soil in plastic pots averaged 4° warmer than soil in clay pots of the same size. Even on days that weren't especially hot, plastic pots went over 90°. That's too warm for many plants. (Clipping from SUNSET magazine.)

Augie Pfeiffer

Letter from James E. Harmon - Imperial Valley Campus - SAN DIEGO STATE COLLEGE - Calexico, California 92231 - dated September 23rd addressed to:

Gentlemen:

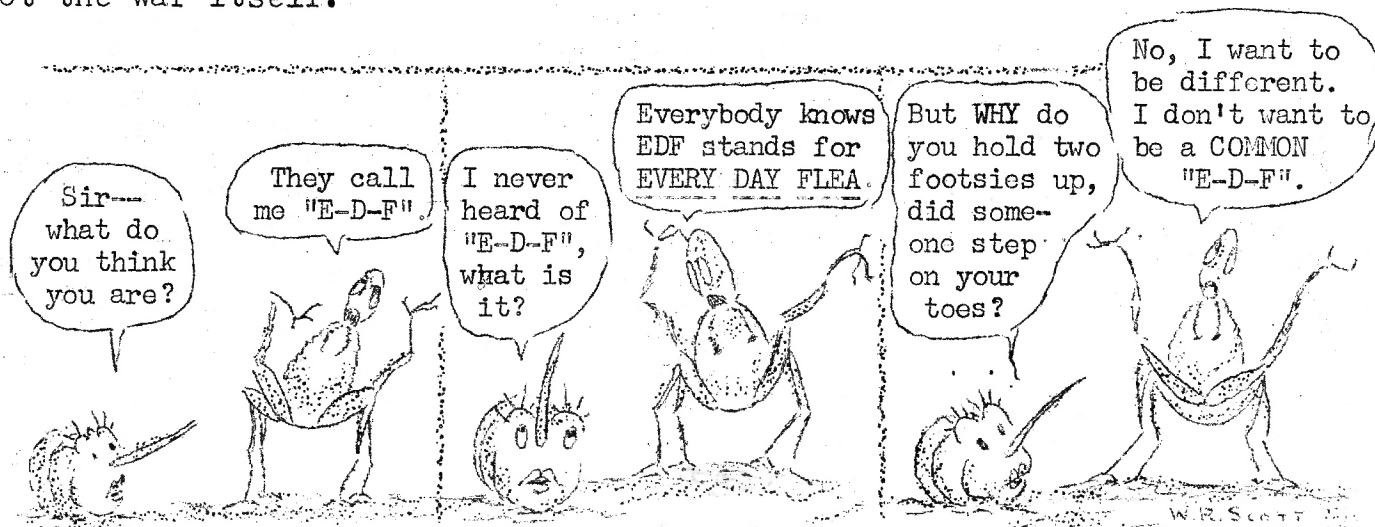
Enclosed is a check for a subscription to your periodical.

James E. Harmon

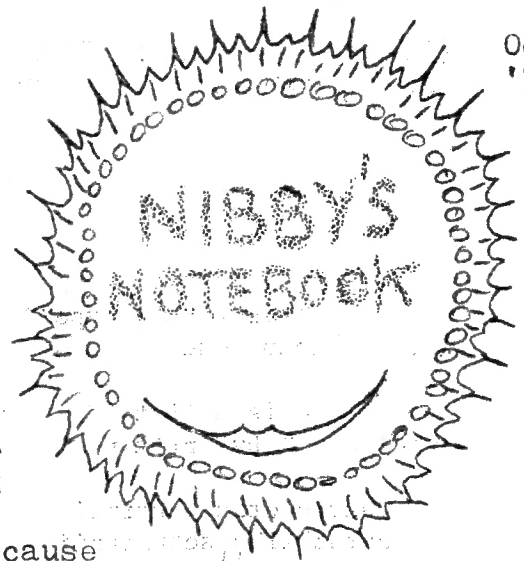
EDITRESS' NOTE: How did you learn of EyF? From the El Centro C&S Club? From Ray and Danielle White? Are you student or teacher?

from COLORADO CACTIVITIES (by Myron Kimmach CSSA President; Affiliate Rep.)

The collecting instinct, while harmless and even creative, when increased a thousand-fold can result in total destruction of some of the most interesting of plants. Nurseries and collectors must begin to abstain from selling and buying wild-collected plants of endangered species and begin propagating them before they are lost forever. Far more serious is the land development...Many more plants have been destroyed by new roads, reservoirs, urban expansion, agriculture and goats than by all the collectors of the world. While the pleas of conservationists will hardly be heeded by vigorous expanding populations hungry for land and better living conditions, surely we can win a battle now and then, if not the war itself.



At this point the Editress has just about had it...ByF is all printed except for this chatty bit...Benjamin (who isn't even a member because his mother is too stingy to fork over the extra dollar since he never goes to meetings) has helped out again doing "heads" and printing...Hope Helen W. likes the Florida Canyon illustration.... We were both quite elated over how well printing on both sides went without loss of time or paper...thinking of Doc Vaughn's writing on the backs of circulars or whatever THIS PAPER IS BEING RECYCLED BY ONE WHO CARES ABOUT TREES moved us to try printing on both sides again. The first time was unnerving because of experimenting with 16-pound weight paper. Forget that — the ink acts adhesively one split second too long, flinging it out of control with an air of happy abandonment. With too more issues to print I have at last been made to understand that it is the ink squeezing out of the fine lines of type that prints — if it's printing pale, it doesn't necessarily want more ink pumped out — it wants, instead, sharper type or type that is CLEAN...or even TYPE SET ON STENCIL...so that's what is wrong with the front page...Two more tries for a perfect paper HA...



October is a lovely month, a balmy month, a places-to-go, things-to-DO month...Sophie and Oliver have gone to Minnesota and Chicago et cetera...Ricky Latimer is the helpful young man who is babysitting PLANTS... he will be bringing them in and selling them at the meeting...by the way, Sophie wondered if someone had a lot of SOLD markers in COLOR so that in the chaos and confusion of so many people in so little space, plants could be marked...when a plant is sold TWICE it causes hard feelings...Speaking of places to go, FLORAL ASSOCIATION is sponsoring a bus tour to Ensenada November 17th...these trips are great to fill in when our club has nothing going, and are made for the benefit of CALIF GARDEN...call Floral office 232-5762 for reservations...Ione announces that Jim Stalsonburg will be the new representative of our C&S Society to Floral Association since the present one is now on the Board of Directors...to facilitate moving from Floral Building to Casa del Prado, extra copies of CALIFORNIA GARDEN will be available, bundled into tidy groups of six-for-a-dollar...previous years...more Collectors items...honestly, these magazines are the kind you want to KEEP.

Another event will be the last Sunday-in-the-Park Open House given by Floral Ass'n...in the Floral Building from 10 to 5, October 3rd...there will be historic items from 1907 on display, complete file of the magazine, flower arrangements...and especially suited to our taste, dish gardens for selling at the Bazaar at the May Company in Mission Valley November 7th...dish gardens made of succulents donated from some of our gardens...Ethel Hoyt is still making them--if you have cuttings to spare bring them either to our meeting (see the Editress) or to Floral's Open House the following day...Readers of CALIF GARDEN may have noticed an announcement of OPEN HOUSE by SAN DIEGO CACTUS & SUCCULENT SOCIETY in the last issue...Wilson Wells did... 't isn't so...after discussing it with the calendar coordinator for almost an hour on the telephone, we agreed that while it was a mistake we didn't know who's (not MINE!) but there was no need to fret...the date came in handy for an organization that DOES want to hold an Open House...so we came out smelling like a rose...Now to run print this page to see if the printing will be up to our high standards we may just run off another page... Then will have to stop...

(Out of stencils! Did this at the office months ago when there was an ailing "o" on my typewriter...when it was fixed it cut the o's OUT!

M O N O T Y P E S

Britton and Rose

What is a "monotype"? Simply a plant so unique and different from others that it has been described as a genus with just one species.

Here is a list of cactus monotypes published nearly 50 years ago in "The Cactaceae" by Britton and Rose, our most used general reference work on cacti:

Austracactus bertinii	Leuchtenbergia principis
Bartschella schumannii	Lophophora williamsii
Bergeracactus emoryi	Matucana haynei
Bergeracactus emory	Mila caespitosa
Browningia candelaris	Neabbatia paniculata
Carnegiea gigantea	Neoraimondia macrostibas
Chamacereus silvestrii	Nopalxochia phyllanthoides
Chiapasia nelsonii	Oreocereus celsianus
Deamia testudo	Oroya peruviana
Denmaza rhodacantha	Pediocactus simpsonii
Dendrocereus nudiflorus	Pelecyphara asseliformis
Edcremocactus bradei	Peniocereus greggii
Epithelantha micromeris	Pfeiffera ianthothele
Eriocyce ceratistes	Phellosperma tetrancistra
Erythrorhipsalis pilocarpa	Salisia pectinata
Escantria chinitilla	Stetsonia coryne
Esposta lanata	Strombocactus disciformis
Facheirna pubiflora	Strophocactus wittii
Grusonia bradtiana	Tacinga funalis
Hematocactus setispinus	Tumeya papyracantha
Hickenia microsperma	Utahia sileri
Homaloccephala texensis	Wilmattea minutiflora
Jasminocereus galapagensis	Zehntnerella squamulosa

It's easy to see that there's room for plenty of differences of opinion here. For a short study in plant classification and changing times, compare this list with the index of J. Borg's "Cacti", or with K. Backeberg's "Kakteenlexikon".

To begin with, many new species have been discovered. Matucana and Pediocactus now have many different species. Several of the other genera have now been lumped with others. Differences of opinion produce other changes. Britton & Rose listed several species of Cephalocereus, for example, while Backeberg recognized only one: C. senilis.

Courtesy of
and thank you to -----

February 1971 · Ed & Betty Gay
(THE LOS ANGELES CACTUS CHRONICLE)

Hello, there Bea Arnold! How was your vacation?
NIBBY'S NOTEBOOK Con'd) Harriett Sopp and Edna Hopper and Ione Hubner
are on the way to help collate and staple...Hope Bill Nelson is much
less "under the weather"...Walter Greenwood is recovering from surgery
at home...I visited him at the Naval Hospital and Mabel in turn stopped
by the office...Augie Pfeiffer had a GREAT vacation in Germany...see
you Saturday...Who judged your Fair this year, Bill Lockwood?... Thanks,
too, and again, for the named opuntia cuttings, Betty & Ed Gay --and all
our good wishes to Ellen and Bill Low for bringing them last month...

Espinas y Flores



Oct '71

Mailing address: Editor Nibby Klinefelter - 2201 Fairfield, San Diego, CA 92110
Treasurer: Warren Buckner - 1744 Englewood Drive: Lemon Grove, CA 92045 - Dues: \$3 - \$4
(single - family) - Single issue 50¢ - postpaid. Membership includes ESPINAS y FLORES.

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Rep to Floral Ass'n-Jim Stalsonburg

BOARD MEETING

Friday - 7:00 pm - Colina del Sol, Oct 8
Board Meetings are the 2nd Friday of month
and are open to all members. (Room 3)

PLANTS of the MONTH

October

Succulent: ALOE bellatula
Cactus: GYMNOCALYCIUM saglione

November

Succulent: STAPELIA family (open)
Cactus: MAMMILLARIA bombycina

December

Succulent: SEDUM hintonii
Cactus: FEROCACTUS glaucescens

MISSING BOOKS

Botany for Gardeners by Harold Rickett
Nightblooming Cereus and Its Allies
(pamphlet)
The librarian would certainly appreciate

NEW MEMBERS CORNER (Membership 221 now!)

Barbara Hansen-Box 565-Crescent City, CA
Peggy & Mel Parks - from Sunnymead?
Verna & John Pasek-10283 Covina Place, SD

CHANGE of ADDRESS:

Ann Boyce - 1109 Ave "K" - Boulder City,
Nevada 89005

REFRESHMENTS DONATED for September by

Helen Hegyi
Alice Wells
Edna Hopper
Lorena Valentine
Hazel Scott
Elvira Bibbey

Elvira Bibbey graciously served in
Rose d'Attilio's place helping Hazel
(Rose's number - 281-9731)

EPIPHYLLUM SOCIETY

Wednesday - 13 October - 7:00 p.m.
Floral Building*
Public invited

Saturday in the Park
Floral Building

OUR PROGRAM

2 October 1971 at 1:30

Dr. Lee Phelps

speaking with charm
and knowledge about

"EPIPHYTES"

MORE MISSING RECORDS - Scrapbook -

Large white album with pictures and
articles of our Society's past...
Original paper CAKTOS SUCCULENTES

Espinas y Flores
2201 Fairfield Street
San Diego, Calif. 92110

